Lafayette College,

1858-9. '60, '66-68 '69-71, 72-81

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CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1858-9.

EASTON, PA.

TRUSTEES.

Rev. SEPTIMUS TUSTIN, D. D., President,	Washington City.
Rev. S. M. ANDREWS, D. D., Secretary,	Doylestown.
Rev. WM. NEILL, D. D.,	Philadelphia.
Rev. JOHN McNAIR, D. D.,	Clinton, N. J.
Rev. D. J. WALLER,	Bloomsburg.
Rev. ROBERT D. MORRIS,	Newton.
Rev. ROBERT HAMILL,	Boalsburg.
WM. C. LAWSON, Esq.,	Milton.
Rev. D. V. McLEAN, D. D.,	Easton.
WM. S. MARTIEN, Esq.,	Philadelphia.
Rev. GARDINER SPRING, D. D.,	New York.
Ren. JOHN DORRANCE,	Wilkesbarre.
Hon. WM. A. PORTER,	Philadelphia.
Rev. SAMUEL M. GAYLEY,	Media.
JAMES McKEEN, Esq.,	South Easton.
MATTHEW HALE JONES, Esq.,	Easton.
McEVERS FORMAN, Esq.,	"
MICHAEL C. GRIER, Esq.,	Danvill e.
Gen. JAMES IRVIN,	Bellefonte.
Rev. J. B. SPOTSWOOD, D. D.,	Newcastle, Del.
JAMES KENNEDY, Esq.,	Bath.
Rev. ROBERT McCACHRAN,	Newville.
Rev. HUGH N. WILSON, D. D.,	Hackettstown, N. J.
His Ex'y. J. POLLOCK, LL. D.,	Harrisburg.
DAVID WILSON, Esq.,	Chambersburg
Rev. JOHN L. JANEWAY,	Flemington, N. J.
JOHN BEVERIDGE, Esq.	Newburg, N. Y.
Rev. JOHN LEAMAN,	Blue Ball.
Rev. SAMUEL F. COLT,	Towanda.
JAMES. N. DICKSON, Esq.,	Philadelphia.
Rev. WM. P. BREED,	"
Rev. JOHN SQIER,	Port Deposit, Md.

TREASURER AND SOLICITOR,

E. J. FOX, Esq.,	Easton.

63597

PRUDENTIAL COMMITTEE.

Rev. G. WILSON McPHAIL, D. D.
MATTHEW HALE JONES, Esq.
JAMES McKEEN, Esq.

INVESTING COMMITTEE.

JAMES McKEEN, Esq.
McEVERS FORMAN, Esq.
MATTHEW HALE JONES, Esq.

VISITORS,

APPOINTED BY THE SYNOD.

Rev. J. F. HALSEY,	Norristown, Pa.
Rev. A. B. CLARKE,	Altoona, "
Rev. J. L. VALLANDIGHAM,	Newark, Delaware.
Rev. J. H. M. KNOX,	Germantown, Phila.
Hon. GEORGE SHARSWOOD,	Philadelphia.

FACULTY.

Rev. G. WILSON McPHAIL, D. D., President,

and Professor of Mental and Moral Philosophy.

JAMES H. COFFIN, A. M.,

Professor of Mathematics and Natural Philosophy.

TRAILL GREEN, M. D.,

Professor of Chemistry.

Rev. WILLIAM C. CATTELL, A. M.

Professor of the Latin and Greek Languages.

FRANCIS A. MARCH, A. M.,

Professor of the English Language, and Lecturer on Comparative Philology.

Rev. JOHN LEAMAN, A. M., M. D.,

Professor of Natural History, and Lecturer on Human Anatomy and Physiology.

Rev. JAMES R. ECKARD, D. D.,

Professor of Rhetoric.

CHARLES CORSS, A. M.,

Tutor.

REFERENCES.

E. C.	East College.
W. C.	West College.
†	Absent.

STUDENTS.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Benjamin Gilbert Benedict,	*Patterson, N. Y.*	26 E. C.
James Penny Boyd,	*Fairfield, Lan. Co.*	25 E. C.
Joseph Castles,	*McEwensville,*	7 W. C.
H. Clay Dentler,	*McEwensville,*	60 E. C.
Joseph C. Ferriday,	*Concordia, La.*	Prof. Cattell's.
William C. Ferriday,	*Concordia, La.*	Prof. Cattell's.
John Fowler,	*Holmesburg,*	36 E. C.
T. Bradun Gillespie,	*Cecil Co., Md.*	14 E. C.
Joseph Henry Hayes,	*McEwensville,*	45 E. C.
Frank D. Hetrich,	*Easton,*	Mr. Hetrich's
Joseph Martin,	*Martin's Creek,*	7 W. C.
Henry Stothoff,	*Flemington, N. J.*	25 E. C.
Hampton Carson Watson,	*Harrisburg,*	2 W. C.
Jacob Weygandt Weaver,	*Easton,*	Mr. Weaver's.
James Raymond Weeks,	*Carmel, N. Y.*	26 E. C.
John Grier Williamson,	*York County,*	14 E. C.
John Albert Winterich,	*Oneida, N. Y.*	55 E. C.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
A. Benedict,	*Patterson, N. Y.*	21 E. C.
S. G. Blythe,	*South Hanover, Ind.*	35 E. C.
Smith P. Galt,	*Galt Villa,*	49 E. C.
J. B. Hinkson,	*Chester,*	22 E. C.
Henry T. Lee,	*Croton Falls, N. Y.*	13 E. C.
B. F. Patterson,	*Orangeville,*	27 E. C.
Jos. Patterson,	*Poundridge, N. Y.*	1 W. C.
J. B. Patton,	*Greenwood Valley,*	47 E. C.
George J. Porter,	*Chester Dist. So. Ca.*	48 E. C.
Augustus Raymond,	*Bedford, N. Y.*	3 W. C.
†S. S. Yates,	*Port Byron, N. Y.*	
R. B. Youngman,	*Mifflinburg,*	4 W. C.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Wm. H. Alexander,	*Vincennes, Ind.*	44 E. C.
A. A. Annan,	*Emmittsburg, Md.*	32 E. C.
M. N. Appleget,	*Hackettstown, N. J.*	50 E. C.
Frederic A. R. Baldwin,	*Bloomfield, N. J.*	Dr. Green's.
Joseph Barrett,	*Bedford, N. Y.*	8 W. C.
Peter S. Bergstresser,	*Berrysburg,*	23 E. C.
James K. Brugler,	*Bloomsburg,*	33 E. C.
Edward S. Carrell,	*Groveland, N. Y.*	15 E. C.
Newton James Conklin,	*Mount Morris, N. Y.*	15 E. C.
F. M. Cruikshank,	*Cecilton, Md.*	30 E C.
Luther Davis,	*Phillipsburg, N. J.*	38 E. C.
Daniel S. Dusinberre,	*Bedford, N. Y.*	1 W. C.
Samuel L. Fisler,	*Swedesboro, N. J.*	34 E. C.
Howard R. Hetrich,	*Easton,*	Mr. Hetrich's.
Thos. McCamant,	*Tipton,*	16 E. C.
†William W. Moon,	*Easton,*	
Clinton W. Neal,	*Bloomsbury,*	31 E. C.
J. M. Nourse,	*Milroy,*	59 E. C.
R. S. Parker,	*Lewistown,*	59 E. C.
D. I. Patterson,	*Greenwood,*	27 E C.
Jacob Person,	*Harmony, N. J.*	9 W. C.
Geo. C. Pollock,	*New York City,*	12 E. C.
Stephen W. Pomeroy,	*Roxbury,*	36 E. C.
W. H. Seip,	*Easton,*	Mr. Seip's.
W. H. Smith,	*Vincennes, Ind.*	33 E. C.
C. L. Teel,	*Phillipsburg, N. J.*	Mr. L. M. Teel's.
Jacob Titman,	*Hope, N. J.*	58 E. C.
Frank B. Wells,	*Newburg, N. Y.*	34 E. C.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
George W. Alexander,	*Vincennes, Ind.*	44 E. C.
Frank J. Alison,	*Wilmington, Del.*	20 E. C.
John H. Buckley,	*Easton,*	Mr. Buckley's.
John Chandler,	*Belvidere, N. J.*	28 E. C.
W. H. H. Cruikshank,	*Cecilton, Md.*	30 E. C.
James Dawes,	*Easton,*	Mr. Dawes's.
Wm. Gibson Field,	*Easton,*	Dr. Field's.
H. H. Grotz,	*Bloomsburg,*	31 E. C.
Reuben Haines,	*Brick Meeting House, Md.*	8 W. C.
David A. Irwin,	*Mifflinburg,*	5 W. C.
James G. Emery,	*Flemington, N. J.*	43 E. C.
Robert I. Jones,	*Easton,*	M. H. Jones, Esq.
Brainerd Leaman,	*Easton,*	Prof. Leaman's.
Henry Page McPhail,	*Easton,*	Dr. McPhail's.
Samuel D. Mulford,	*Gloucester City, N. J.*	28 E. C.
Joseph J. Parks,	*Germantown,*	16 E. C.
Robert Scott,	*Bridesburg,*	5 W. C.
Albert N. Seip,	*Easton,*	Mr. Seip's.
Edwin Shalter,	*Schuylkill Bend,*	49 E. C.
H. W. Sherrer,	*Lewisville,*	23 E. C.
Phineas B. Vansyckel,	*Perryville, N. J.*	22 E. C.
Duncan S. Walker,	*Washington, D. C.*	56 E. C.
Henry M. Worrell,	*Perrineville, N. J.*	57 E. C.

SUMMARY.

Seniors,	17
Juniors,	12
Sophomores,	28
Freshmen,	23
Total,	80

RECAPITULATION.

Pennsylvania,	39
New York,	14
New Jersey,	13
Maryland,	5
Indiana,	4
Louisiana,	2
South Carolina,	1
Delaware,	1
District of Columbia,	1

CALENDAR.

1858.

September 9, First term commences. Thursday.
Decem. 8–14, Examination of all the classes.
Decem. 15, First term ends.

Vacation of Four Weeks

1859.

January 13, Second term commences. Thursday.
April 6–12, Examination of all the classes.
April 13, Second term ends.

Vacation of Three Weeks.

May 5, Third term commences. Thursday.
June 13–15, Examination of Senior class.
July 19–25, Examination of lower classes.
July 24, Baccalaureate Sermon by the PRESIDENT, Sunday, A. M.
July 24, Sermon before the Brainerd Society by the Rev. Dr. PLUMER, Alleghany Theol. Seminary, Sunday, P. M.
July 25, Junior Exhibition, Monday evening.
July 26, Address before the Society of Alumni. Tuesday.
July 26, Address before the Washington and Franklin Literary Societies. Tuesday.
July 27, Commencement exercises. Wednesday.

Vacation of Six Weeks.

Septem. 6 and 7, Examination for admission.
Septem. 8, First term commences. Thursday.

TERMS OF ADMISSION.

CANDIDATES for admission to the Freshman class are examined in Geography, Ancient and Modern; Arithmetic; Algebra, through Simple Equations; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books,) or Sallust; Virgil, (six books of the Æneid;) Cicero's Select Orations; Arnold's Latin Prose Composition, (xii chapters;) Xenophon's Anabasis*; the Gospels in the Greek Testament; Arnold's Greek Prose Composition, (20 §§;) or other authors fully equivalent in quantity to the above.

Candidates for advanced standing are also examined in the studies gone over by the class which they propose to enter; but no Student will be admitted to the Senior Class after the beginning of the second session.

Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing.

No Student is considered a regular member of College, until, after a probation of thirty days, he has been matriculated, during which time he is subject to the laws of the College.

By a resolution of the Board of Trustees every Student is required to sign a pledge that, during his College course, he will have no connection with any secret society without previous permission of the Faculty.

In the Classical Department the Grammars used are Andrews and Stoddard's Latin, and Crosby's Greek; the Lexicons, Andrews's Latin, and Liddell and Scott's Greek. Eschenburg's Manual is used as a text-book in Greek and Roman Antiquities.

* The Greek Reader will be accepted for the Anabasis.

COURSE OF INSTRUCTION.

FRESHMAN CLASS.

FIRST TERM.

Algebra, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia.
Latin Composition.
Classical Geography.
Old Testament, in English.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia
Latin Composition.
Greek Antiquities.
English Composition.
Old Testament, in English.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Horace.
Herodotus.
Greek Composition.
Roman Antiquities.
English Composition.
New Testament, in English.

Throughout the Year.—Declamations, and written Translations from Greek and Latin into English.

SOPHOMORE YEAR.

FIRST TERM.

Plane Trigonometry, Loomis's.
Horace.
Xenophon, Memorabilia.
Greek Composition.
Study of Words, Trench.
Rhetoric.
Greek Testament, Acts.
Geography of the Bible, Coleman.
Declamation, and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Mensuration, Loomis's
Homer, Iliad.
Cicero, De Oratore.
Archæology of Greek Lit. and Art.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

THIRD TERM.

Navigation and Surveying, Loomis's.
Homer, Iliad.
French.
Archæology of Rom. Lit. and Art.
Political Economy.
Logic.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

JUNIOR YEAR.

FIRST TERM.

Analytical Geometry, Coffin's.
Differential and Integral Calculus.
Demosthenes, de Corona.
Cicero, Tusculan Disputations.
German.
History, Ancient and Modern.
Greek Testament, Romans.
Declamation, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (commenced.)
Tacitus, Germania and Agricola.
Anglo-Saxon, Barnes's Delectus.
Fowler's English Language.
Milton, Paradise Lost.
Constitution of the United States.
Political Philosophy.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (continued.)
Greek Tragedies.
Anglo-Saxon, Barnes's Delectus.
Fowler's English Language.
Shakespeare, Julius Cæsar.
Greek Testament, Ephesians.
Declamation, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Natural Philosophy, (completed.)
Spherical Trigonometry.
Chemistry.
Plato.
Greek Literature.
Rhetoric, Whately's.
Confession of Faith.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Moral Philosophy.
Evidences of Christianity.
Astronomy, (commenced.)
Mineralogy.
Geology, Hitchcock's, (commenced.)
Anatomy and Physiology.
Juvenal and Persius.
Latin Literature.
English Literature.
Confession of Faith.
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Astronomy, (completed.)
Geology, Hitchcock's, (completed.)
Botany.
Latin and Greek Literature,
Architecture.
Comparative Philology.
Confession of Faith.
Themes, and Extemporaneous Speaking.

On Monday morning throughout the year, the Freshman, Sophomore, and Junior Classes have a Biblical Exercise, and the Seniors recite in the Confession of Faith with an Exposition.

The study of Chemistry is accompanied with a series of Lectures illustrated by experiments; that of Natural Philosophy and Astronomy, with practical illustrations and instruction in the use of instruments; that of Anatomy and Physiology, with demonstrations from Diagrams and Anatomical Specimens.

Besides the declamations in the Classes, there is a public exercise every Thursday morning in the Chapel, at which all the Classes speak by divisions, and for which they are prepared by private rehearsal before the Professor of Rhetoric. Seniors deliver Original Compositions.

Instruction is given in Hebrew gratuitously to all who desire it.

TERMS AND VACATIONS.

The College year is divided into three Terms or Sessions. The Annual Commencement is on the last Wednesday of July, and the first term of the next College year begins six weeks after, and continues fourteen weeks. A vacation of four weeks follows, after which the second term begins, and continues thirteen weeks. The last session commences on Thursday, twelve weeks preceding the Annual Commencement.

For the calendar for the present Collegiate year, see page 12.

ATTENDANCE.

Students are required to be present punctually at the commencement of each Session, and are not allowed during term time to be absent from town, except by written permission from the President or Faculty.

All the Students are required to attend Divine Service in one of the Presbyterian Churches in the borough on Sabbath Morning, (unless permitted by the Faculty to attend another Church,) and in the Chapel in the Afternoon.

A record is kept of the punctuality, diligence, scholarship, and general behaviour of each student; a report of which is sent to the parent or guardian at the close of each session.

EXAMINATIONS.

All the Classes are examined at the close of the first and second Sessions; the Senior Class is examined six weeks before Commencement; the three lower classes the week preceding Commencement, when it is the duty of a committee appointed by the Synod of Philadelphia to be present.

LOCATION.

The College is situated in the borough of Easton, Pa., fifty-five miles North from Philadelphia, and seventy-two miles West from New York. With those cities there is communication two or three times daily, (Sundays excepted,) by Railroad. Fare from $1 50 to $1 75. There

is also Railroad communication with the Northern Counties of Pennsylvania, and with Western New York, by means of the Belvidere Delaware, and the Delaware Lackawanna and Western Railroads; and with Central Pennsylvania, by the Lehigh Valley Railroad.

EXPENSES.

Matriculation or Admission Fee,	$3 00
Tuition per Session, (to those not on Scholarships,)	13 33
Fuel per Session, average,	2 50
Room Rent, (an average) per Session,	3 50
Servants' Wages, making Fires, &c., per Session,	1 75
For the increase of the Library, do do	68

Students are permitted to select their place of boarding, at private houses, or in clubs. The price of board in clubs is $1 25 to $2 00 per week. No student is permitted to board at a public hotel, and in all cases the place of boarding must be approved by the Faculty.

Tuition, Room Rent, and Servants' Wages must be paid each Session in advance, and no student is permitted to recite until the receipt of the Treasurer is obtained. The Matriculation or Admission Fee is paid thirty days after entering College. Students obtain washing at about one dollar per month. Students will require some money for Books and Stationery, and other incidental expenses, but it is strongly recommended to Parents to furnish them with little beyond what will meet their necessary expenses. Students provide their own furniture, fuel and lights.

LITERARY SOCIETIES.

There are two Literary Societies in the College—the Washington and the Franklin—which have spacious and well-furnished halls. Each Society has also an extensive and valuable library.

The Brainerd Evangelical Society holds its anniversary and has a public address on Sabbath Evening preceding Commencement.

On the day preceding Commencement, an oration is delivered before the Literary Societies; and one before the Society of the Alumni. The Junior Exhibition takes place on Monday evening preceding Commencement.

LIBRARY.

The College Library is open Wednesdays and Saturdays, at 9 A. M.; that of the Franklin Society on Saturday Afternoon; of the Washington Society on Thursday Morning; and of the Brainerd Society at their regular meetings.

GRATUITOUS INSTRUCTION.

All young men of good talents who are seeking the ministry, and who are well prepared for College, will receive their tuition at a reduced rate, or gratuitously if their circumstances require it; and the Trustees design that no young man of good character and talents shall be excluded from the benefits of this Institution, on account of his inability to pay for the instruction it furnishes.

PLAN OF ENDOWMENT.

1. *One Hundred Dollars* paid shall entitle the subscriber to the tuition of all his sons, without further charge in the College;* or, instead of his own sons, those of any family he may designate; and for every additional hundred dollars which the same individual may pay, he shall have the privilege of designating the sons of any family he may think proper to receive tuition in the College as above.

2. *Five Hundred Dollars*, paid by an individual, an association of individuals, or by a congregation, shall entitle the individual, association, or session of a church or congregation to a perpetual scholarship, to which the party may appoint any individual they may select; and the scholarship may be devised by will as any other property. The incumbent on any of the scholarships is subject, of course, to all the rules and regulations of the College, as well as the discipline.

3. The Trustees bind themselves and their successors, that the funds thus contributed shall never be used for purposes inconsistent with the views of Christian truth now entertained by the Synod of Philadelphia, in connection with the General Assembly of the Presbyterian Church in the United States.

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* The regular tuition fees for *one* student, for a full course, are ONE HUNDRED AND SIXTY DOLLARS.

4. The Synod of Philadelphia has the sole right by the charter to nominate all the Trustees and Members of the Faculty, and to appoint a Board of Visitors from their own number to attend all examinations, and to that body the Trustees are bound to report annually the condition of the College. Subscribers and donors therefore have a guaranty that the Institution will always be wisely governed, and supplied with able and faithful instructors and officers, and that no religious instruction will be given in the College inconsistent with the Standards of the Presbyterian Church.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1859-60.

EASTON, PA.

TRUSTEES.

Rev. G. WILSON McPHAIL, D. D., President,	Easton.
Rev. S. M. ANDREWS, D. D., Secretary,	Doylestown.
Rev. WM. NEILL, D. D.,	Philadelphia.
Rev. SEPTIMUS TUSTIN, D. D.,	Washington City.
Rev. JOHN McNAIR, D. D.,	Clinton, N. J.
Rev. D. J. WALLER,	Bloomsburg, Pa.
Rev. ROBERT D. MORRIS,	Oxford, Ohio.
Rev. ROBERT HAMILL,	Boalsburg.
WM. C. LAWSON, Esq.,	Milton.
Rev. D. V. McLEAN, D. D.,	Easton.
Rev. GARDINER SPRING, D. D.,	New York City.
Rev. JOHN DORRANCE,	Wilkesbarre.
Hon. WM. A. PORTER,	Philadelphia.
Rev. SAMUEL M. GAYLEY,	Media, Pa.
JAMES McKEEN, Esq.,	South Easton.
MATTHEW HALE JONES, Esq.,	Easton.
McEVERS FORMAN, Esq.,	"
MICHAEL C. GRIER, Esq.,	Danville.
Gen. JAMES IRVIN,	Bellefonte.
Rev. J. B. SPOTSWOOD, D. D.,	Newcastle, Del.
JAMES KENNEDY, Esq.,	Bath.
Rev. ROBERT McCACHREN,	Newville.
Rev. HUGH N. WILSON, D. D.,	Hackettstown, N. J.
WM. S. MARTIEN,	Philadelphia.
His Ex'y J. POLLOCK, LL.D.,	Harrisburg.
DAVID WILSON, Esq.,	Chambersburg.
Rev. JOHN L. JANEWAY,	Flemington, N. J.
JOHN BEVERIDGE, Esq.,	Newburg, N. Y.
Rev. JOHN LEAMAN,	Easton.
Rev. SAMUEL F. COLT,	Towanda.
Rev. WM. P. BREED,	Philadelphia.
Rev. JOHN SQUIER,	Port Deposit, Md.
Rev. A. H. HAND, D. D.,	Bloomsbury, N. J.

TREASURER AND SOLICITOR,

E. J. FOX, Esq., Easton.

PRUDENTIAL COMMITTEE.

REV. G. WILSON McPHAIL, D. D.
MATTHEW HALE JONES, ESQ.
JAMES McKEEN, ESQ.

INVESTING COMMITTEE.

JAMES McKEEN, ESQ.
McEVERS FORMAN, ESQ.
MATTHEW HALE JONES, ESQ.

VISITORS,
APPOINTED BY THE SYNOD.

REV. JOHN LEYBURN, D. D.,
REV. L. C. RUTTER,
REV. DAVID STERRETT,
SAMUEL GEDDES, ESQ.,
T. CHARLTON HENRY, ESQ.

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and Professor of Mental and Moral Philosophy.

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Professor of Chemistry.

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Professor of the Latin and Greek Languages.

FRANCIS A. MARCH, A. M.,
Professor of the English Language, and Lecturer on Comparative Philology.

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Professor of Natural History, and Lecturer on Human Anatomy and Physiology.

Rev. JAMES R. ECKARD, D. D.,
Professor of Rhetoric.

CHARLES CORSS, A. M.,
Tutor.

REFERENCES.

E. C.	East College.
W. C.	West College.
*	Absent.
†	Partial Course

STUDENTS.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Alanson Benedict,	*Patterson, N. Y.*	33 E. C.
Smith G. Blythe,	*South Hanover, Ind.*	35 E. C.
Smith P. Galt,	*Galt Villa,*	45 E. C.
J. B. Hinkson,	*Chester,*	22 E. C.
Henry T. Lee,	*Croton Falls, N. Y.*	13 E. C.
B. F. Patterson,	*Orangeville,*	60 E. C.
J. B. Patton,	*Greenwood Valley,*	47 E. C.
G. J. Porter,	*Hazlewood, S. C.*	46 E. C.
Augustus Raymond,	*Bedford, N. Y.*	3 W. C.
R. B. Youngman,	*Mifflinburg,*	4 W. C.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Wm. H. Alexander,	*Vincennes, Ind.*	44 E. C.
A. A. Annan,	*Emmittsburg, Md.*	32 E. C.
M. N. Appleget,	*Hackettstown, N. J.*	50 E. C.
Frederic A. R. Baldwin,	*Bloomfield, N. J.*	Dr. T. Green's.
Joseph Barrett,	*Bedford, N. Y.*	8 W. C.
Peter S. Bergstresser,	*Berrysburg,*	23 E. C.
James K. Brugler,	*Bloomsburg,*	33 E. C.
Newton James Conklin,	*Mount Morris, N. Y.*	15 E. C.
F. M. Cruikshank,	*Cecilton, Md.*	14 E. C.
Luther Davis,	*Phillipsburg, N. J.*	38 E. C.
Daniel S. Dusinberre,	*Bedford, N. Y.*	1 W. C.
Samuel L. Fisler,	*Bridgeport, N. J.*	34 E. C.
Howard R. Hetrich,	*Easton,*	Mr. Hetrich's.
Thomas McCamant,	*Blair Co.*	25 E. C.
Clinton W. Neal,	*Bloomsburg,*	2 W. C.
J. M. Nourse,*	*Milroy,*	59 E. C.
R. S. Parker,	*Ellendale,*	59 E. C.
D. I. Patterson,	*Greenwood,*	27 E. C.
Jacob Person,	*Harmony, N. J.*	43 E. C.
George C. Pollock,	*New York City,*	12 E. C.
Stephen W. Pomeroy,	*Roxbury,*	36 E. C.
W. H. Seip,	*Easton,*	Mr. Seip's.
W. H. Smith,	*Vincennes, Ind.*	33 E. C.
C. L. Teel,	*Phillipsburg, N. J.*	Mr. L. M. Teel's.
Jacob Titman,	*Hope, N. J.*	58 E. C.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Frank J. Alison,	*Wilmington, Del.*	27 E. C.
J. Motter Annan,	*Emmittsburg, Md.*	32 E. C.
John H. Buckley,	*Easton,*	Mr. Buckley's.
J. R. Campbell,	*Saharanpur, N. India,*	54 E. C.
John Chandler,	*Belvidere, N. J.*	20 E. C.
Fred. Corss	*East Smithfield,*	26 E. C.
W. H. H. Cruikshank,	*Cecilton, Md.*	14 E. C.
H. J. Culbertson	*Lewistown,*	59 E. C.
Jas. Kerr Dawes,	*Easton,*	Mr. Dawes's.
James Donnelly,	*Franklin Co.*	56 E. C.
Wm. Gibson Field,	*Easton,*	Dr. Field's.
H. H. Grotz,	*Bloomsburg,*	31 E. C.
Reuben Haines,	*Brick Meeting House, Md*	8 W. C.
Wm. H. James,	*Bridgeton, N. J.*	28 E. C.
Charles E. Lee,	*Croton Falls, N. Y.*	13 E. C.
Robert M. Mann,	*Doylestown,*	44 E. C.
George McIntyre,	*Catasauqua,*	21 E. C.
Henry Page McPhail,	*Easton,*	Dr. McPhail's.
W. G. Meigs,	*Pottstown,*	48 E. C.
S. Dare Mulford,	*Gloucester City, N. J.*	20 E. C.
J. Jewett Parks,	*Germantown,*	36 E. C.
W. Chambers Schultze,	*Edinburgh, Scotland,*	9 W. C.
Robt. Scott,	*Bridesburg,*	27 E. C.
Albert N. Seip,	*Easton,*	Mr. Seip's.
Edwin Shalter,	*Schuylkill Bend,*	49 E. C.
H. W. Sherrer,	*Fair Hill, Md.*	26 E. C.
Phineas B. Vansyckel,	*Perryville, N. J.*	28 E. C.
H. Martin Worrell,	*Perrineville, N. J.*	57 E. C.
B. Chambers Youngman,	*Mifflinburg,*	4 W. C.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Henry Agnew,	*Bath,*	12 E. C.
R. P. Andrews,	*Doylestown,*	44 E. C.
J. Mitchell Bingham,†	*Hollidaysburg,*	25 E. C.
W. D. Brown,	*Rockdale,*	16 E. C.
Henry L. Bunstein,	*Easton,*	Mrs. Bunstein's.
J. C. Bushnell,	*Easton,*	23 E. C.
W. A. Bushnell,	*Easton,*	23 E. C.
Charles Chidsey,	*Easton,*	Mr. Chidsey's.
Robert Craig,	*Lehigh Gap*	13 E. C.
John Ferguson,	*Philadelphia,*	5 W. C.
E. Horner Field,	*Easton,*	Dr. Field's.
William Hackett, Jr.,	*Easton,*	Mr. Hackett's.
Robert Jamison,	*Hartsville,*	51 E. C.
S. V. B. Kachline,	*Forks Township,*	35 E. C.
W. S. Kirkpatrick,	*Easton,*	Mr. Kirkpatrick's.
Brainerd Leaman,	*Easton,*	Prof. Leaman's.
John L. Lloyd,	*Hollidaysburg,*	30 E. C.
G. D. Meigs,	*Pottstown,*	48 E. C.
Oliver Payson Rex,	*Perry, Ill.*	51 E. C.
W. P. Smith,	*Hollidaysburg,*	30 E. C.
Clement Stewart,	*South Easton,*	6 W. C.
Frank Todd,	*Milford,*	49 E. C.
Alexander Wright,	*Antrim Co., Ireland,*	16 E. C.
J. Edgar Young,	*Easton,*	Prof. Coffin's.

SUMMARY.

Seniors,	10
Juniors,	25
Sophomores,	29
Freshmen,	24
Total,	88

RECAPITULATION.

Pennsylvania,	52
New York,	9
New Jersey,	11
Maryland,	7
Indiana,	3
South Carolina,	1
Delaware,	1
Illinois,	1
Northern India,	1
Scotland,	1
Ireland,	1

CALENDAR.

1859.

September 8, First term commences. Thursday.
December 7–13, Examination of all the classes.
December 14, First term ends.

VACATION OF FOUR WEEKS.

1860.

January 12, Second term commences. Thursday.
April 4–10, Examination of all the classes.
April 11, Second term ends.

VACATION OF THREE WEEKS.

May 3, Third term commences. Thursday.
June 11–13, Examination of Senior class.
July 17–23, Examination of lower classes.
July 22, Baccalaureate Sermon by the PRESIDENT, Sunday, A. M.
July 22, Sermon before the Brainerd Society by the Rev. GEORGE W. THOMPSON, D.D., Academia, Pa., Sunday, P. M.
July 23, Junior Exhibition, Monday evening.
July 24, Meeting of the Society of Alumni. Tuesday.
July 24, Address before the Washington and Franklin Literary Societies. Tuesday.
July 25, Commencement exercises. Wednesday.

VACATION OF SIX WEEKS.

September 5, Examination for admission. Wednesday, 9 P. M.
September 6, First term commences. Thursday.
December 12, First term ends.

VACATION OF FOUR WEEKS.

1861.

January 10, Second term commences. Thursday.
April 10, Second term ends.

VACATION OF THREE WEEKS.

May 2, Third term commences.
July 24, Commencement exercises. Wednesday.

TERMS OF ADMISSION.

Candidates for admission to the Freshman Class are examined in Geography, Ancient and Modern; Arithmetic; Algebra, through Simple Equations; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (six books of the Æneid); Cicero's Select Orations; Arnold's Latin Prose Composition (xii chapters); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose composition (20§§); or other authors fully equivalent in quantity to the above.

Candidates for advanced standing are also examined in the studies gone over by the class which they propose to enter; but no Student will be admitted to the Senior Class after the beginning of the second session.

Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing.

No Student is considered a regular member of College, until, after a probation of thirty days, he has been matriculated, during which time he is subject to the laws of the College.

By a Resolution of the Board of Trustees, every Student is required to sign a pledge that, during his College course, he will have no connection with any secret society without previous permission of the Faculty.

In the Classical Department the Grammars used are Andrews and Stoddard's Latin (revised edition), and Crosby's Greek; the Lexicons, Andrews's Latin, and Liddell and Scott's Greek. Eschenburg's Manual is used as a text-book in Greek and Roman Antiquities.

* The Greek Reader will be accepted for the Anabasis.

COURSE OF INSTRUCTION.

FRESHMAN CLASS.

FIRST TERM.

Algebra, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia.
Latin Composition.
Classical Geography.
Old Testament, in English.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia.
Latin Composition.
Greek Antiquities.
English Composition.
Old Testament, in English.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Horace.
Herodotus.
Greek Composition.
Roman Antiquities.
English Composition.
New Testament, in English.

Throughout the Year.—Declamations, and written Translations from Greek and Latin into English.

SOPHOMORE YEAR.

FIRST TERM.

Plane Trigonometry, Loomis's.
Horace.
Xenophon, Memorabilia.
Greek Composition.
Study of Words, Trench.
Rhetoric.
Greek Testament, Acts.
Geography of the Bible, Coleman.
Declamation, and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Mensuration, Loomis's.
Homer, Iliad.
Cicero, De Oratore.
Archæology of Greek Lit. and Art.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

THIRD TERM.

Navigation and Surveying, Loomis's.
Homer, Iliad.
French.
Archæology of Rom. Lit. and Art.
Political Economy.
Logic.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

JUNIOR YEAR.

FIRST TERM.

Analytical Geometry, Coffin's.
Differential and Integral Calculus.
Demosthenes, de Corona.
Cicero, Tusculan Disputations.
German.
History, Ancient and Modern.
Greek Testament, Romans.
Declamation, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (commenced.)
Tacitus, Germania and Agricola.
Anglo-Saxon, Barnes's Delectus.
Fowler's English Language.
Milton, Paradise Lost.
Constitution of the United States.
Political Philosophy.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (continued.)
Greek Tragedies.
Anglo-Saxon, Barnes's Delectus.
Fowler's English Language.
Shakespeare, Julius Cæsar.
Greek Testament, Ephesians.
Declamation, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Natural Philosophy, (completed.)
Spherical Trigonometry.
Chemistry.
Plato.
Greek Literature.
Rhetoric, Whately's.
Confession of Faith.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Moral Philosophy.
Evidences of Christianity.
Astronomy, (commenced.)
Mineralogy.
Geology, Hitchcock's, (commenced.)
Anatomy and Physiology.
Juvenal and Persius.
Latin Literature.
English Literature
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Astronomy, (completed.)
Geology, Hitchcock's, (completed.)
Botany.
Latin and Greek Literature.
Architecture.
Comparative Philology.
Confession of Faith.
Themes, and Extemporaneous Speaking.

On Monday morning throughout the year, the Freshman, Sophomore, and Junior Classes have a Biblical Exercise, and the Seniors recite in the Confession of Faith with an Exposition.

The study of Chemistry is accompanied with a series of Lectures illustrated by experiments; that of Surveying, Natural Philosophy and Astronomy, with practical illustrations and instruction in the use of instruments; that of Anatomy and Physiology, with demonstrations from Diagrams and Anatomical Specimens.

Besides the declamations in the Classes, there is a public exercise every Thursday morning in the Chapel, at which all the Classes speak by divisions. Seniors deliver Original Compositions.

Instruction is given in Hebrew gratuitously to all who desire it.

TERMS AND VACATIONS.

The College year is divided into three Terms or Sessions. The Annual Commencement is on the last Wednesday of July, and the first term of the next College year begins six weeks after, and continues fourteen weeks. A vacation of four weeks follows, after which the second term begins, and continues thirteen weeks. The last session commences on Thursday, twelve weeks preceding the Annual Commencement.

For the calendar, see page 12.

ATTENDANCE.

Students are required to be present punctually at the commencement of each Session, and are not allowed during term-time to be absent from town, except by written permission from the President or Faculty.

All the Students are required to attend Divine Service in one of the Presbyterian Churches in the borough on Sabbath Morning, (unless permitted by the Faculty to attend another Church,) and in the Chapel in the Afternoon.

A record is kept of the punctuality, diligence, scholarship, and general behaviour of each student; a report of which is sent to the parent or guardian at the close of each session.

EXAMINATIONS.

All the Classes are examined at the close of the first and second Sessions; the Senior Class is examined six weeks before Commencement; the three lower classes the week preceding Commencement, when it is the duty of a Committee appointed by the Synod of Philadelphia to be present.

LOCATION.

The College is situated in the borough of Easton, Pa., fifty-five miles North from Philadelphia, and seventy-two miles West from New York. With those cities there is communication two or three times daily, (Sundays excepted,) by Railroad. Fare from $1 50 to $1 75. There is also Railroad communications with the Northern Counties of Pennsylvania, and with Western New York, by means of the Belvidere Delaware, and the Delaware Lackawanna and Western Railroads; and with Central Pennsylvania, by the Lehigh Valley Railroad.

EXPENSES.

Matriculation or Admission Fee, . . .	$3 00
Tuition per Session, (to those not on Scholarships,)	13 33
Fuel per Session, average, ...	2 50
Room Rent, (an average) per Session, . .	3 50
Servants' Wages, making Fires, &c., per Session.	1 75
For the increase of the Library, do. do. .	68

Students are permitted to select their place of boarding, at private houses, or in clubs. The price of board in clubs is $1 25 to $2 00 per week. No student is permitted to board at a public hotel, and in all cases the place of boarding must be approved by the Faculty.

Tuition, Room Rent, and Servants' Wages must be paid each Session in advance, and no student is permitted to recite until the receipt of the Treasurer is obtained. The Matriculation or Admission Fee is paid thirty days after entering College. Students obtain washing at about one dollar per month. Students will require some money for Books and Stationery, and other incidental expenses, but it is strongly recommended to Parents to furnish them with little beyond what will meet their necessary expenses. Students provide their own furniture, fuel and lights.

LITERARY SOCIETIES.

There are two Literary Societies in the College—the Washington and the Franklin—which have spacious and well-furnished halls. Each Society has also an extensive and valuable library.

The Brainerd Evangelical Society holds its anniversary and has a public address on Sabbath Evening preceding Commencement.

On the day preceding Commencement, an oration is delivered before the Literary Societies, and one before the Society of the Alumni. The Junior exhibition takes place on Monday evening preceding Commencement.

LIBRARY.

The College Library is open Wednesdays and Saturdays, at 9 A. M.; that of the Franklin Society on Saturday Afternoon; of the Washington Society on Thursday Morning; and of the Brainerd Society at their regular meetings.

GRATUITOUS INSTRUCTION.

All young men of good talents who are seeking the ministry, and who are well prepared for College, will receive their tuition at a reduced rate, or gratuitously if their circumstances require it; and the Trustees design that no young man of good character and talents shall be excluded from the benefits of this Institution, on account of his inability to pay for the instruction it furnishes.

PLAN OF ENDOWMENT.

1. *One Hundred Dollars* paid shall entitle the subscriber to the tuition of all his sons, without futher charge in the College;* or, instead of his own sons, those of any family he may

* The regular tuition fees for *one* student, for a full course, are One Hundred and Sixty Dollars.

designate; and for every additional hundred dollars which the same individual may pay, he shall have the privilege of designating the sons of any family he may think proper to receive tuition in the College, as above.

2. *Five Hundred Dollars*, paid by an individual, an association of individuals, or by a congregation, shall entitle the individual, association, or session of a church or congregation to a perpetual scholarship, to which the party may appoint any individual they may select; and the scholarship may be devised by will as any other property. The incumbent on any of the scholarships is subject, of course, to all the rules and regulations of the College, as well as the discipline.

3. The Trustees bind themselves and their successors, that the funds thus contributed shall never be used for purposes inconsistent with the views of Christian truth now entertained by the Synod of Philadelphia, in connection with the General Assembly of the Presbyterian Church in the United States.

4. The Synod of Philadelphia has the sole right by the charter to nominate all the Trustees and Members of the Faculty, and to appoint a Board of Visitors from their own number to attend all examinations, and to that body the Trustees are bound to report annually the condition of the College. Subscribers and donors therefore have a guaranty that the Institution will always be wisely governed, and supplied with able and faithful instructors and officers, and that no religious instruction will be given in the College inconsistent with the Standards of the Presbyterian Church.

THE END.

CATALOGUE

OF THE

Officers and Students

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1866—1867,

WITH THE COURSES OF STUDY.

LIBRARY
U.S. BUREAU OF EDUCATION

EASTON, PA.

The Synod of Philadelphia which is in connection with the General Assembly of the Presbyterian Church in the United States of America, has the sole right, by the charter of Lafayette College, to nominate all the Trustees and Members of the Faculty, and to appoint a Board of Visitors from their own number to attend all examinations; and to that body the Trustees are bound to report annually the condition of the College. A guaranty is thus given that the Institution will always be wisely governed, and supplied with able and faithful instructors and officers, and that no religious instruction will be given in the College, inconsistent with the Standards of the Presbyterian Church.

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ADJUNCT PROFESSOR OF LATIN AND GREEK.

SELDEN JENNINGS COFFIN, A. M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

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TUTOR IN MODERN LANGUAGES.

C. L. REHN, A. M.,
CURATOR OF THE MUSEUMS AND CABINETS.

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STUDENTS.

REFERENCES.

East College, E. C.—West College, W. C.—Blair Hall, B. H.—Partial Course, †

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Peter S. Bergstresser,	*Berrysburg*,	51 E. C.
Edward Payson Conkling,	*Mount Pleasant, N. J.*,	47 E. C.
Ezra Shive Heany,	*Doylestown*,	Bushkill St.
Robert James Hess,	*Easton*,	24 E. C
Samuel Loy Johnson,	*Ickesburg*,	46 E. C.
John Hervey Kase,	*Danville*,	49 E. C.
Samuel Worman Knipe,	*Columbia*,	45 E. C.
William Robert McFarlane,†	*Reedsville*,	15 E. C.
John Michael Pfouts,	*Jersey Shore*,	7 W. C.
Lindley Charles Rutter, Jr.	*Chestnut Level*,	14 E. C.
Robert Henry Smith,	*Lower Chanceford*,	35 E. C.

SENIORS, ... 11

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Richard Arthur,	*Constitution*,	60 E. C.
Herbert Le Grand Baker,	*Scranton*,	33 E. C.
James Welch Boal,	*Bellefonte*,	14 E. C.
Alfred Brown,	*Bethlehem*,	34 E. C.
William Filson,	*Academia*,	20 E. C.
Edwin Pember Foresman,	*Moshannon*,	12 E. C.
Abram Paschal Garber,	*Columbia*,	45 E. C.
John William Griggs,	*Newton, N. J.*	36 E. C.
Hervey Gulick,	*Belvidere, N. J.*	13 E. C.
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Abraham Budd Howell,	*Phillipsburgh, N. J.*	23 E. C.
John Jones Janeway,	*Flemington, N. J.*	8 W. C.
Joel Smith Kelsey,	*Huntington, L. I.*	33 E. C.
James Horner Kerr,	*Jersey Shore*,	7 W. C.
Albert McDowell,	*Light Street*,	37 E. C.
Charles McIntyre, Jr.,	*Easton*,	22 E. C.
Michael Servetus Seip,	*Easton*,	81 Centre Square.
Abram Alexander Smith,	*Belvidere, N. J.*	30 E. C.
Willie Nelson Stem,	*Easton*,	46 Bushkill St.
William Grove Stewart,	*Chanceford*,	58 E. C.
Jesse Bowman Young,	*Berwick*,	27 E. C.

JUNIORS, ... 21

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
William Felix Beisel,	*Turbutville*,	37 E. C.
Silas Wright De Witt,	*Harmony, N. J.*	23 E. C.
Maurice Charles Eby,	*Harrisburgh*,	21 E. C.
James Sterling Edelman,†	*Brooklyn, N. Y.*	46 E. C.
Alfred Peck Edgerton, Jr.,	*Fort Wayne, Ind.*	21 E. C.
Andrew Clarkson Fulton,	*Chanceford*,	38 E. C.
Alexander Blaine Grosh,	*Andersonburg*,	34 E. C.
Melancthon E. Heinen,	*Milton*,	32 E. C.
Samuel Yohe Heller,	*Easton.*	
Clayton Wood Holmes,	*Elmira, N. Y.*	24 E. C.
Robert Evan James,	*Sunbury*,	17 B. H.
George Edward Jones,	*Fannettsburg*,	15 E. C.
Franklin Jefferson Kline,	*Warsaw, Ind.*	5 W. C.
Manning Force Lantz,	*Augusta, N. J.*	48 E. C.
James Sanderson Lawson,	*Milton*,	32 E. C.
John Howard Logan,	*Pittsburgh*,	19 B. H.
Thomas Dale Logan,	*Pittsburgh*,	20 B. H.
Harmar Denny McKnight,	*Pittsburgh*,	13 B. H.
Woodruff McKnight,	*Pittsburgh*,	14 B. H.
William F. Patton,	*Upton*,	27 E. C.
Alexander Montgomery Russel,	*Danville*,	37 E. C.
James Christian Russell,	*Bedford*,	54 E. C.
Walter Quincy Scott,	*Washington, D. C.*	4 W. C.
Robert Alpheus Sebring,	*Jersey Shore*,	3 W. C.
James Hume Smith,	*Lower Chanceford*,	35 E. C.
Frank Wells Stewart,	*Easton*,	N. 2d St.
Humphrey Dillon Tate,	*Bedford*,	13 E. C.

SOPHOMORES, ... 27.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
William Baeder Adamson,	*Germantown,*	Pres. Cattell's.
Charles Henry Baldwin,	*Southport, N. Y.*	62 Bushkill St.
James Vogan Bare,	*Bareville,*	12 B. H.
John H. Bissell,	*Pittsburgh,*	8 B. H.
Joseph Henry Brensinger,	*Media,*	31 E. C.
Edward Bryan,	*Washington, N. J.*	2 B. H.
Richard William Dickinson Bryan,	*Washington, N. J.*	1 B. H.
Charles Keeler Canfield,	*Stevensville,*	Lafayette Park.
John Walley Clark,	*Hazleton,*	1 W. C.
Norris Hunter Cone,	*Cambridge, Md.*	43 E. C.
Edward Bryan Cottrell,	*Columbia,*	33 E. C.
James Beaver Deshler,	*Bath.*	———
Lucien Wilson Doty,	*Mifflintown,*	9 W. C.
Jonathan Emmert,	*Benevola, Md.*	50 E. C.
William Steel Evans,	*Rising Sun, Md.*	5 W. C.
Thomas McKeen Farquhar,	*Lower Chanceford,*	56 E. C.
William Gemmill,	*Milroy,*	12 E. C.
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James Alexander Hand,	*Bloomsbury, N. J.*	Prof. Eckard's.
Joseph Johnston Hardy,	*St. Clair,*	50 E. C.
Jonathan Moore Harris,	*Phillipsburgh, N. J.*	18 B. H.
William Gray Heller,	*Easton,*	Walnut St.
Terence Jacobson,	*Baltimore, Md.*	43 E. C.
Samuel Huntzinger Kaercher,	*Pottsville,*	18 B. H.
George R. Lathrop,†	*Washington, D. C.*	2 W. C.
James Verner Long,	*Pittsburgh,*	7 B. H.
Nathaniel Peasly Moody,	*Asylum,*	54 E. C.
David G. Eshleman Musselman,	*Strasburg,*	12 B. H.

FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
Robert Maitland Petrie,	*Phillipsburgh, N. J.*	
Frank Hammond Piatt,	*Tunkhannock,*	57 E. C.
James Wilson Piatt,	*Tunkhannock,*	57 E. C.
Frank Sumner Rice,	*Elmira, N. Y.*	62 Bushkill St.
Clarence Henderson Risk,	*Muncy,*	6 W. C.
Horace Roland,	*New Holland,*	13 B. H.
Francis Fenelon Rowland,	*Media,*	31 E. C.
Monroe Porter Seltzer,	*Mount Joy,*	59 E. C.
Alexander Hamilton Sherrerd,	*Scranton,*	5 Northampton St.
Frank Jordon Washabaugh,	*Bedford,*	27 E. C.
James Hervey Wright,	*Lower Chanceford,*	56 E. C.
John Russel Youngman,	*Winfield,*	Prof. Youngman's.
Thomas William Youngman,	*Mifflinburg,*	Prof. Youngman's.
James Patterson Ziegler,	*Mount Joy,*	59 E. C.

FRESHMEN, ...	42
Whole number of Students, ...	101

CALENDAR.

1866.

September 6, Thursday. First term commences.
December 12, Wednesday. First term ends.

VACATION OF FOUR WEEKS.

1867.

January 10, Thursday. Second term commences.
April 10, Wednesday. Second term ends.

VACATION OF FOUR WEEKS.

May 9, Thursday. Third term commences.
June 17—19. Final examination of the Senior Class.
July 25—29. Examination of the lower classes.
July 28, Sunday, A. M. Baccalaureate Sermon.
July 28, Sunday, P. M. Sermon before the Brainerd Missionary Society, by the Rev. E. R. BEADLE, D. D.
July 29, Monday, P. M. Junior exhibition.
July 30, Tuesday, A. M. Re-union meetings of the Literary Societies.
July 30, Tuesday, P. M. Meeting of the Society of Alumni.
July 30, Tuesday Evening. Oration before the Franklin and Washington Literary Societies.
July 31, Wednesday. Commencement Exercises.

VACATION OF SIX WEEKS.

September 11, Wednesday. Examination for admission.
September 12, Thursday. First term commences.
December 18, Wednesday. First term ends.

VACATION OF FOUR WEEKS.

1868.

January 16, Thursday. Second term commences.
April 15, Wednesday. Second term ends.

VACATION OF THREE WEEKS.

TERMS OF ADMISSION.

Candidates for admission to the Freshman class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic; Algebra, through Simple Equations; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (six books of the Æneid); Cicero's Select Orations; Arnold's Latin Prose Composition (xii. chapters); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§); or other authors fully equivalent in quantity to the above.

Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography, Ancient and Modern; Arithmetic; Algebra, through Simple Equations; English Grammar; the outlines of History, and the general contents of the Bible.

Candidates for advanced standing are also examined in the studies gone over by the class which they propose to enter; but no student will be admitted to the Senior class after the beginning of the second session.

Any person who is prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as a special student.

Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

No student is considered a regular member of College, until he has been matriculated, after a probation of thirty days, during which time he is subject to the laws of the College.

By a resolution of the Board of Trustees every student is required to sign a pledge, that during his College course, he will have no connection with any secret society, without previous permission of the Faculty.

No one can be admitted to the Freshman class until he has completed his fourteenth year; and no one to advanced standing without a corresponding increase of age.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

GENERAL STATEMENT.

The Classical course is the same as the Undergraduate course of our best colleges; it will be pursued here, as it has so long been, as the regular introduction to the special professional study of Theology, Medicine, and Law, and also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

It is evident, however, that the number of students in our country is great, and constantly increasing, who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best colleges, and who would be glad to enjoy the cultivation and learned habits and associations of college life, but who will not study Greek and Latin.

To secure these advantages for such as prefer to pursue their studies at Lafayette College, A. PARDEE, Esq., of Hazleton, Pennsylvania, has placed in the hands of the Trustees the sum of $100,000. This has enabled the Board to add to the Faculty of the College eminent instructors in the various departments of Physical Science; and the munificence of the citizens of Easton and of friends of the College elsewhere, has supplied funds for the buildings and apparatus necessary for a thorough Course of Instruction in the studies above mentioned. The Trustees have accordingly established such a course under the name of the PARDEE SCIENTIFIC COURSE IN LAFAYETTE COLLEGE.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old college studies to manly culture

and religious training, have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old land-marks, and that as far as possible the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, may be so adapted to the students of the new course as to give in a good degree the same kind of discipline that is derived from the study of Greek and Latin.

In addition to this general SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, optional studies are arranged for the Senior year and for a POST-GRADUATE COURSE, so that the students may, if they choose, devote themselves to studies essentially practical and technical, viz., ENGINEERING, Civil, Topographical and Mechanical; MINING and METALLURGY; ARCHITECTURE; and the application of Chemistry to AGRICULTURE and the ARTS. There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; and of the HISTORY and INSTITUTIONS of our own country.

It is perhaps scarcely necessary to add that the Board intend that the whole Scientific Course shall have the Christian character which they have endeavoured to impress upon the studies of the College, and that science shall be here so taught as to become "the handmaid of religion." All the departments will be in the hands of Christian scholars, who will not fail to improve, in their various instructions, the opportunity constantly recurring of directing the student from Nature to Nature's God. But in addition to this and also to the systematic and thorough study of the Word of God in all the classes, both of the Classical and Scientific Course, special lectures will be given upon the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

Algebra, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia.
Latin Composition.
Classical Geography.
Old Testament, in English.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (commenced.)
Livy.
Herodotus.
Latin Composition.
Greek Antiquities.
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Horace.
Mark.
Greek Composition.
Roman Antiquities.
English Composition.
New Testament, in English.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations from Greek and Latin into English.

SOPHOMORE YEAR.

FIRST TERM.

Plane Trigonometry, Loomis's.
Horace.
Xenophon, Memorabilia.
Greek Composition.
Study of Words, Trench.
Rhetoric.
Greek Testament, Acts.
Geography of the Bible, Coleman's.
Declamation, and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Mensuration, Loomis's.
Homer, Iliad.
Cicero, De Oratore.
Archæology of Greek Literature and Art.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

THIRD TERM.

Navigation and Surveying, Loomis's.
Homer, Iliad.
French.
Archæology of Roman Literature and Art.
Political Economy.
Logic.
Greek Testament, Acts.
Declamation, Themes, and written Debates.

JUNIOR YEAR.

FIRST TERM.

Analytical Geometry, Coffin's
Differential and Integral Calculus.
Demosthenes, De Corona.
History of Greece.
Cicero, Tusculan Disputations.
German.
Greek Testament, Romans.
Declamation, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (commenced.)
Tacitus, Germania and Agricola.
Anglo-Saxon.
Fowler's English Language.
Milton, Paradise Lost.
Constitution of the United States.
Political Philosophy.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (continued.)
Greek Tragedies.
Greek Harmony of the Gospels, Robinson's.
Anglo-Saxon.
Fowler's English Language.
Shakespeare, Julius Cæsar.
Greek Testament, Romans.
Declamation, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Natural Philosophy, (completed.)
Spherical Trigonometry.
Chemistry.
Plato.
Greek Literature.
Rhetoric.
Anatomy and Physiology.
Confession of Faith.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Moral Philosophy.
Evidences of Christianity.
Astronomy, (commenced.)
Mineralogy.
Geology, Hitchcock's, (commenced.)
History.
Juvenal and Persius. } Elective.
Hebrew, Green's Grammar and Chrestomathy. } Elective.
Latin Literature.
English Literature.
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Astronomy, Descriptive and Practical.
Physical Astronomy. } Elective.
Hebrew, Green's Grammar, and Chrestomathy. } Elective.
Geology, Hitchcock's, (completed.)
Botany.
Latin and Greek Literature.
Architecture.
Comparative Philology.
Confession of Faith.
Themes, and Extemporaneous Speaking.

PARDEE SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Algebra.	Geometry.	Algebra.
French.	French.	Geometry.
Chemistry.	German.	Modern Languages.
Ancient Geography.	Chemistry.	Mineralogy.
English Composition.	English Composition.	English Composition.
Elocution.	Elocution.	Elocution.
Old Testament.	Old Testament.	New Testament.
Lectures on Health.	Biblical Geography.	Biblical Geography.
Geographical Drawing.	Geometrical Drawing.	Geometrical Drawing.

SOPHOMORE YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Plane Trigonometry.	Conic Sections.	Navigation.
Chemistry.	Mensuration.	Surveying.
Trench on the Study of Words.	Chemistry.	Botany.
	Botany.	Political Economy.
French.	German.	Logic.
German.	English, Spenser.	Modern Languages.
English, Bunyan.	Acts of the Apostles.	English, Chaucer.
Rhetoric.	Geometrical and Topographical Drawing.	Biblical Antiquities.
Acts of the Apostles.		Drawing of Plants.
Declamations and Themes.	Declamations and Themes.	Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Analytical Geometry.	Natural Philosophy.	Natural Philosophy.
Calculus.	Anglo-Saxon.	Mineralogy.
French.	English, Milton.	Anglo-Saxon.
English, Daniel Webster.	Constitution of U. S.	Modern Languages.
Zoölogy.	Political Philosophy.	English, Shakespeare.
New Testament Epistles.	Zoölogy, Taxidermy.	New Testament Epistles.
Geometrical and Topographical Drawing.	New Testament Epistles.	Machine Drafting.
	Linear Perspective.	Declamations and Themes.
Declamations and Themes.	Declamations and Themes.	

SENIOR YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Mental Philosophy.	Moral Philosophy.	Butler's Analogy.
Natural Philosophy.	Evidences of Christianity.	Astronomy.
Spherical Trigonometry.	Astronomy.	Geology and Physical Geography.
Chemistry.	Geology & Phys. Geog.	Natural History.
Anatomy & Physiology.	History.	Archæology of Literature.
Modern Languages and Literature.	Rhetoric.	Architecture.
Confession of Faith.	English Literature.	Comparative Philology.
Themes and Extemporaneous Speaking.	Confession of Faith.	Themes, etc.
	Themes, etc.	

In place of the general course of the Senior year, those students who desire to pursue technical and professional studies may substitute any one of the following courses by giving notice to the PRESIDENT before the close of the Junior year.

ENGINEERING COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Spherical Trigonometry.	Astronomy.	Astronomy.
Mechanics; Theory of Machines, Strength and Stability of Structures, and Mechanics of Fluids.	Geology and Physical Geography.	Construction of Engineering and Architectural Works.
Problems in Stone Cutting and Constructions.	Road Engineering; Theory and Practice.	Designs for, and Examinations of Special Works.
Geology and Physical Geography.	Construction of Engineering and Architectural Works.	Plans, Profiles, and Sections of Railway Surveys.
Drawing Maps of Hydrographical Surveys.	Theory of Machines.	General Reviews.
Mental Philosophy.	Machine Drafting.	
Biblical Exercise.	Moral Philosophy.	
	Evidences of Christianity.	

CHEMICAL COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Geology and Physical Geography.	Astronomy.	Astronomy.
Mineralogy.	Technical Chemistry.	Technical Chemistry.
Technical Chemistry; Qualitative and Quantitative Analysis.	Assaying.	Special Applications of Chemistry in Agriculture and the Arts.
Determinative Mineralogy	Geology and Physical Geography.	Natural History.
Mental Philosophy.	Construction of Chemical Works.	Geology and Physical Geography.
Biblical Exercise.	Moral Philosophy.	General Reviews.
	Evidences of Christianity.	

MINING COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Mechanics; Theory of Machines and Mining Tools, Strength and Stability of Structures, Practical Hydraulics, Practical Pneumatics.	Geology and Physical Geography.	Construction and Engineering of Mines.
Geology and Physical Geography.	Assaying.	Plans, Profiles, and Sections of Mines.
Technical Chemistry; Qualitative and Quantitative Analysis; Use of the Blow-pipe.	Metallurgy.	Examination of Mines and Mining Works.
Determinative Mineralogy.	Construction of Furnaces.	Treatment of Special Ores.
Mental Philosophy.	Survey and Exploitation of Mines.	Natural History.
Biblical Exercise.	Astronomy.	Geology and Physical Geography.
	Moral Philosophy.	General Reviews.
	Evidences of Christianity.	

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor of that Department, and have the use of the Laboratories, Apparatus, Collections, Library, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Their general range may be found on pages 24—26. Particular information may be obtained by addressing the PRESIDENT.

SUMMARY OF EXERCISES OF PRACTICE.

Astronomy.	Use of Instruments, Working of Observatory.
Botany.	Field Excursions; preparation of herbarium; original description and drawing of plants, etc.
Chemistry.	Manipulations in the Laboratory throughout the course.
Drawing.	Throughout the course.
Engineering.	Visits to works, and reports on them, giving plans, etc.; construction of models.
Geology.	Field excursions.
Mineralogy.	Field excursions; manipulations of minerals, rocks, and metallurgical specimens; with the use of the blow-pipe.
Mining.	In the advanced course of Mining and Chemistry, application will be made in behalf of some of the best students to work during vacation in particular mines or manufactories.
Oratory.	Declamations in class every week. A public exercise every Thursday morning in Chapel, at which all the students are present, and the classes speak by divisions. Seniors deliver original compositions.
Physical Culture.	Exercises in the Gymnasium through the course.
Surveys.	Levelling; calculation of excavations; surface, and underground surveys; visits to mines and metallurgical works.
Themes.	Original compositions upon assigned subjects.
Zoölogy.	Taxidermy; Drawing.

BUILDINGS AND COLLECTIONS.

A handsome and commodious building for the Chemical department has been erected by the liberality of B. H. JENKS, Esq., of Bridesburg, and is fitted up with all the most approved modern appliances, for operation in inorganic, organic, and analytical Chemistry, and especially in Assaying and Metallurgy.

The ASTRONOMICAL OBSERVATORY, which has just been erected for the College by the liberality of Professor TRAILL GREEN, consists of a Tower and two Transit Rooms, with a Lecture Room attached. It is fitted up with a revolving dome and telescope, a transit instrument, and other apparatus for the observation of astronomical facts, and for the thorough study of Astronomy.

The citizens of Easton are now erecting spacious additions to the main College building, in which, besides additional rooms for the accommodation of students, there will be large Halls appropriated to Museums and Cabinets. These, when completed, are designed to illustrate all the departments of Natural Science, especially Mineralogy and Lithology, Geology and Palæontology, Botany and Zoölogy. Collections are also making of models and drawings of furnaces, mining tools, machines, and structures instructive to the Engineer and Architect.

During the last year the College Cabinets have received valuable additions, through the liberality of JOHN W. GARRETT, A. M., Baltimore; ASHBEL WELCH, Lambertville, N. J.; Dr. RYERSON, Newton, N. J.; GEORGE A. BELL, Esq., N. Y.; ROBERT MCDOWELL, Esq., Slatington, Pa.; and Rev. ALFRED TAYLOR, and H. N. PAUL, Esq., Philadelphia.

The Trustees earnestly call the attention of the Alumni and friends of the College to this subject, and beg them to unite in the effort now making to increase the Library and to complete these Collections at an early day, by donations either in money or in Specimens, Books, &c.

SPECIAL REMARKS.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In this year also, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In the Senior year, are studied the Old Testament, in the original Hebrew, (an elective study,) the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to, as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

LANGUAGES.

In the study of the Latin Language, Harkness's Grammar and Andrews' Lexicon are used: of the Greek, Crosby's Grammar and Liddell and Scott's Lexicon. Eschenberg's Manual is the text-book in Classical Antiquities.

French, German, and Anglo-Saxon are regular studies in both courses; Hebrew, Spanish, and Italian are optional.

The English Language is studied in the same way as the Latin and the Greek. An English classic, Milton's Paradise Lost, for example, is studied just as the most skilful Professors of Greek teach the Iliad of Homer. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up; and whatever else is necessary, that every allusion may be comprehended.

The character of the author, and his life and times are also studied, since these are necessary to a comprehension of his work and his speech; and comparison is continually made with the language of other great English authors, and of the English Bible; so that the relation of each author to English literature and the English race may be carefully examined.

The rhetorical laws of English Composition, and the principles of Epic and Dramatic art are applied to Milton, Shakespeare and other English Classics, line by line; and an attempt is made to comprehend the particular beauties and apprehend the general plan of the great representative works of English literature.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

For this best discipline and learning which modern philology enables us to draw from the study of languages, no language affords a better field than our own English: and it is believed that the culture in this department will be to a considerable extent a substitute in the Scientific course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

Anglo-Saxon, German and French, are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other, and language in general.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE FOR PROFICIENCY IN ENGLISH PHILOLOGY.

An annual prize of thirty dollars has been founded by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to deter-

mine which student of the Senior class has made the greatest proficiency in English Philology."

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1863 were examined on Milton's Lycidas. The prize was awarded to M. A. Depue.

The class of 1864 were examined on Chaucer's Canterbury Tales (the Prologue). A first prize was awarded to Alfred P. Reid, a second to Nathaniel S. McFetridge.

The class of 1865 were examined on Spenser's Faery Queen. The prize was awarded to James Roberts.

The class of 1866 were examined on Bunyan's Pilgrim's Progress. The prize was awarded to George R. Kaercher.

The next Senior class will be examined on the English translations of the Bible.

PHYSICAL CULTURE.

The design of this department is to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. This physical training is part of the regular College course, and is under the immediate supervision of the Professor of Physical Culture.

SPECIAL STUDIES OF THE PARDEE SCIENTIFIC COURSE.

CIVIL, TOPOGRAPHICAL, AND MECHANICAL ENGINEERING.

The studies of this department in the Senior year of the PARDEE SCIENTIFIC COURSE and in the POST-GRADUATE COURSE, are designed to give professional preparation for the location, construction and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvements; the determination of Latitude, Longitude, Time, and the Meridian; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical, and machine drawings.

MINING.

This department offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or

metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawing; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines. Any person who is prepared to pursue these studies with advantage may be received as a special student.

CHEMISTRY.

Students in this department are required to perform operations themselves, every facility for which is found in the Laboratory of JENKS CHEMICAL HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries. Any person who is prepared to pursue these studies with advantage may be received as a special student.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on Sabbath afternoons. On Sabbath morning, students attend services in one of the churches of the Borough. Social prayer meetings on two other evenings of the week have long been maintained by the students. Thursday evening there is divine service conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well furnished Halls. Each Society has also a valuable library.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address, on Sabbath evening preceding Commencement.

On the day preceding Commencement, the Literary Societies hold reunion meetings in the forenoon, and an oration is delivered before them in the evening. The Junior exhibition takes place on Monday evening preceding Commencement.

The ALUMNI SOCIETY is composed of graduates of the College and such of their classmates (who left College before graduation, and in good stand-

ing) as may have been elected. The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

The READING ROOM is under the control of a Society for procuring and preserving standard periodicals and books of reference. Any student may become a member. Its hall is open daily (Sundays excepted) for general reading, out of study hours.

LIBRARIES.

The College Library is open Mondays and Thursdays, at nine o'clock, A. M.; that of the Franklin Society, on Saturday afternoon; of the Washington Society, on Thursday morning; and of the Brainerd Society, at its regular meetings.

TERMS AND VACATIONS.

The college year is divided into three terms or sessions. The Annual Commencement is on the last Wednesday of July, and the first term of the next College year begins six weeks after, and continues fourteen weeks. A vacation of four weeks follows, after which the second term begins, and continues thirteen weeks. The last session commences on Thursday, twelve weeks preceding Commencement. For the Calendar, see page 12.

Students are required to be present punctually at the commencement of each session, and are not allowed during term-time to be absent from town, except by written permission from the President.

A record is kept of the punctuality, diligence, scholarship, and general behaviour of each student; a report of which is sent to the parent or guardian at the close of each session.

EXAMINATIONS.

All the classes are examined at the close of the first and the second session; the Senior class is examined six weeks before Commencement; the three lower classes the week preceding Commencement.

DEGREES.

In addition to the usual degree of BACHELOR OF ARTS conferred upon the graduates of the Classical department, those students in the Scientific department who have completed the full course of four years, and passed a satisfactory final examination, and who have submitted to the Board of Examiners an approved Thesis upon a subject embraced in one of the Technical Courses, will be admitted to the degree of BACHELOR OF SCIENCE.

Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

The degree of MASTER OF SCIENCE is conferred (upon payment of the usual fee of $5) on any BACHELOR who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere, for three or more years, engaged in scientific pursuits.

EXPENSES.

Tuition, per session, (to those not on scholarships,) .	$15 00
Fuel, " (average) . . .	5 00
Room rent, "	3 50
Incidental expenses, (servants' wages, &c.,) .	1 75
For the use and increase of the Library, . .	1 00

The matriculation or admission fee is $3; the fee for diploma, &c., at graduation is $6. The fees for students pursuing advanced studies in Chemistry, Mining, Engineering, &c., may be learned on application to the PRESIDENT.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the professional courses in the Senior year, in which case he must pay for that year one half the regular fee for tuition.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs is from $2.50 to $4.00 per week. This is, of course, a large advance on former prices. Before the war, boarding in some of the clubs was only $1 per week.

Tuition, room-rent, incidentals, and charge for Library, must be paid each session in advance; and no student is permitted to recite until the receipt of the Treasurer is obtained. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay a particular attention to the pecuniary concerns of the student, settling his bills and transmitting an account of the expenditure; for which services he will charge a commission.

CATALOGUE

OF THE

Officers and Students

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1867—1868,

WITH THE COURSES OF STUDY.

EASTON, PA.
1868.

COLLEGE CALENDAR.

1867.

September 12, Thursday. First term commenced.
December 18, Wednesday. First term ended.

Vacation of Four Weeks.

1868.

January 16, Thursday. Second term commences.
April 15, Wednesday. Second term ends.

Vacation of Three Weeks.

May 7, Thursday. Third term commences.
June 29—July 1. Final Examination of the Senior Class.
July 23—27. Examination of the lower classes.
July 26, Sunday, A. M. Baccalaureate Sermon.
July 26, Sunday, P. M. Sermon before the Brainerd Missionary Society.
July 27, Monday, 4 P. M. Addresses from the Committee of Synod.
July 28, Tuesday, A. M. Re-union meetings of the Literary Societies.
July 28, Tuesday, P. M. Meeting of the Society of Alumni.
July 28, Tuesday Evening. Oration before the Literary Societies.
July 29, Wednesday. Commencement Exercises.

Vacation of Six Weeks.

September 9, Wednesday. Examination for admission.
September 10, Thursday. First term commences.
December 16, Wednesday. First term ends.

Vacation of Four Weeks.

1869.

January 14, Thursday. Second term commences.
April 13, Wednesday. Second term ends.

Vacation of Three Weeks.

TRUSTEES.

Hon. JAMES POLLOCK, LL.D., President,	Philadelphia.
Rev. S. M. ANDREWS, D. D., Secretary,	Doylestown.
Rev. SEPTIMUS TUSTIN, D. D.,	Washington City.
Rev. D. J. WALLER,	Bloomsburg.
Rev. ROBERT HAMILL, D. D.,	Boalsburg.
WILLIAM C. LAWSON, Esq.,	Milton.
JAMES McKEEN, Esq.,	Easton.
MATTHEW HALE JONES, Esq.,	"
McEVERS FORMAN., Esq.,	"
Rev. SAMUEL F. COLT,	Towanda.
Rev. AARON H. HAND, D. D.,	Bloomsbury, N. J.
Rev. WILLIAM C. CATTELL, D. D.,	Easton.
Col. JAMES R. SNOWDEN,	Philadelphia.
Rev. MILO J. HICKOK, D. D.,	Scranton.
A. PARDEE, Esq.,	Hazleton.
ALFRED MARTIEN, Esq.,	Philadelphia.
Rev. J. H. M. KNOX, D. D.,	Germantown.
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BARTON H. JENKS, Esq.,	Philadelphia.
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Col. WILLIAM DORRIS, Jr.,	Huntingdon.
MORRIS PATTERSON, Esq.,	Philadelphia.
Dr. JOHN CURWEN,	Harrisburgh.
WILLIAM ADAMSON, Esq.,	Philadelphia.

TREASURER,

Prof. JAMES H. COFFIN, Easton, Pa.

MEMBERS OF THE FACULTY.

Rev. WILLIAM C. CATTELL, D. D., President,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

Rev. GEORGE JUNKIN, D. D., LL.D.,
EMERITUS PROFESSOR OF METAPHYSICS AND LECTURER ON POLITICAL PHILOSOPHY.

TRAILL GREEN, M. D., LL.D.,
ADAMSON PROFESSOR OF GENERAL AND APPLIED CHEMISTRY.

JAMES H. COFFIN, LL.D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

Rev. GEORGE BURROWES, D. D.,
PROFESSOR OF BIBLICAL INSTRUCTION.

FRANCIS A. MARCH, A. M.,
PROFESSOR OF THE ENGLISH LANGUAGE AND COMPARATIVE PHILOLOGY.

Rev. JOHN LEAMAN, A. M., M. D.,
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

Rev. JAMES R. ECKARD, D. D.,
PROFESSOR OF HISTORY AND RHETORIC.

Rev. LYMAN COLEMAN, D. D.,
PROFESSOR OF ANCIENT LANGUAGES AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

Rev. HENRY S. OSBORN, LL.D.,
PROFESSOR OF MINING AND METALLURGY.

Rev. THOMAS C. PORTER, D. D.,
PROFESSOR OF BOTANY AND ZOOLOGY.

AUGUSTUS A. BLOOMBERGH, A. M.,
PROFESSOR OF MODERN LANGUAGES.

CHARLES H. HITCHCOCK, A. M.,
PROFESSOR OF GEOLOGY AND MINERALOGY.

HENRY F. WALLING, C. E.,
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

.....
PROFESSOR OF PHYSICAL CULTURE.

ROBERT BARBER YOUNGMAN, A. M.,
ADJUNCT PROFESSOR OF LATIN AND GREEK.

SELDEN JENNINGS COFFIN, A. M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

JAMES W. MOORE, A. M.,
TUTOR IN MATHEMATICS AND ENGINEERING.

GEORGE TROXELL KELLER, A. B.,
TUTOR IN MODERN LANGUAGES.

C. L. REHN, A. M.,
CURATOR OF THE MUSEUMS AND CABINETS.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC COURSE.

John W. Garrett, Esq.,	Baltimore, Md.
Ashbel Welch, Esq.,	Lambertville, N. J.
Charles F. Norton, Esq.,	Philadelphia.
Selden T. Scranton, Esq.,	Oxford, N. J.
A. A. Douglas, Esq.,	Mauch Chunk.
Hon. Robert McKnight,	Pittsburgh.
John W. Leisenring, Esq.,	Mauch Chunk.
Thomas Dickson, Esq.,	Scranton.

VISITORS APPOINTED BY THE SYNOD.

Rev. Wm. O. Johnstone,	Philadelphia.
Rev. J. P. Conkey,	Shamokin.
Rev. J. L. Withrow,	Abington.
Rev. D. H. Barron,	Hollidaysburg.
H. J. Williams, Esq.,	Chestnut Hill.
Joseph Harvey, Esq.,	Philadelphia.
Gen. B. F. Bell,	Antistown.

The Synod of Philadelphia which is in connection with the General Assembly of the Presbyterian Church in the United States of America, has the sole right, by the charter of Lafayette College, to nominate all the Trustees and Members of the Faculty, and to appoint a Board of Visitors from their own number to attend all examinations; and to that body the Trustees are bound to report annually the condition of the College.

STUDENTS.

REFERENCES.

East College, E. C.—West College, W. C.—Blair Hall, B. H.—Partial Course, †

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Adolph F. Bechdolt, A. B.,	Lafayette, 1866,	Chemistry.
Hugh Hamilton, B. S.,	Pa. Agr. Coll., 1866,	Mining Eng.
Robert J. Hess, A. B.,	Lafayette, 1867,	Chemistry.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Richard Arthur,	*Constitution*,	60 E. C.
Herbert Le Grand Baker,	*Clarkston, Mich.*	33 E. C.
James Welch Boal,	*Bellefonte*,	14 E. C.
Alfred Brown,	*Bethlehem*,	34 E. C.
William H. Filson,	*Academia*,	9 W. C.
Edwin Pember Foresman,	*Moshannon*,	12 E. C.
Abram Paschal Garber,	*Columbia*,	45 E. C.
John William Griggs,	*Newton, N. J.*	36 E. C.
Hervey Gulick,	*Belvidere, N. J.*	13 E. C.
Oscar J. Hardin,	*Fredon, N. J.*	36 E. C.
Abraham Budd Howell,	*Lopeacong Springs, N. J.*	23 E. C.
James Horner Kerr,	*Jersey Shore*,	47 E. C.
Charles McIntire, Jr.,	*Easton*,	22 E. C.
Michael Servetus Seip,	*Easton*,	81 Centre Square.
Abram Alexander Smith,	*Belvidere, N. J.*	33 E. C.
Willie Nelson Stem,†	*Easton*,	46 Bushkill St.
William Grove Stewart,	*Chanceford*,	49 E. C.

SENIORS, ... 17

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Silas Wright De Witt,	*Harmony, N. J.*	23 E. C.
Andrew Clarkson Fulton,	*Chanceford,*	38 E. C.
Clayton Wood Holmes,	*Elmira, N. Y.*	24 E. C.
Robert Evan James,	*Sunbury,*	17 B. H.
George Edward Jones,	*Fannettsburg,*	23 E. C.
Manning Force Lantz,	*Augusta, N. J.*	48 E. C.
James Sanderson Lawson,	*Milton,*	32 E. C.
John Howard Logan,	*Pittsburgh,*	19 B. H.
Thomas Dale Logan,	*Pittsburgh,*	20 B. H.
Harmar Denny McKnight,	*Pittsburgh,*	15 B. H.
Woodruff McKnight,	*Pittsburgh,*	14 B. H.
William F. Patton,	*Upton,*	27 E. C.
James Christian Russell,	*Bedford,*	54 E. C.
Walter Quincy Scott,	*Washington, D. C.*	4 W. C.
Robert Alpheus Sebring,	*Jersey Shore,*	3 W. C.
James Hume Smith,	*Lower Chanceford,*	35 E. C.
Frank Wells Stewart,	*Easton,*	N. 2d St.
Humphrey Dillon Tate,	*Bedford,*	13 E. C.
James William Wilson,	*Easton,*	20 W. C.

JUNIORS, ... 19

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
William Baeder Adamson,†	*Germantown*,	Pres. Cattell's.
Charles Henry Baldwin,	*Southport, N. Y.*	62 Bushkill St.
Joseph Henry Brensinger,	*Media*,	59 E. C.
Richard William Dickinson Bryan,	*Washington, N. J.*	1 B. H.
Charles Keeler Canfield,	*Stevensville*,	Lafayette Park.
John Walley Clark,	*Hazleton*,	1 W. C.
Frank Doremus,	*New Orleans, La.*	17 Northampton St.
Lucien Wilson Doty,	*Mifflintown*,	59 E. C.
Jonathan Emmert,	*Benevola, Md.*	50 E. C.
William Steel Evans,	*Rising Sun, Md.*	48 E. C.
Thomas McKeen Farquhar,	*Easton*,	35 E. C.
William Gemmill,	*Milroy*,	12 E. C.
Joseph Johnston Hardy,	*St. Clair*,	45 E. C.
Jonathan Moore Harris,	*Phillipsburgh, N. J.*	31 E. C.
William Gray Heller,	*Easton*,	57 E. C.
Terence Jacobson,	*Baltimore, Md.*	43 E. C.
Samuel Huntzinger Kaercher,	*Pottsville*,	18 B. H.
James Verner Long,†	*Pittsburgh*,	Prof. Eckard's.
*Edward Kirk Meigs,	*Pottstown.*	.....
David G. Eshleman Musselman,	*Strasburg*,	12 B. H.
Frank Hammond Piatt,	*Tunkhannock*,	57 E. C.
James Wilson Piatt,	*Tunkhannock*,	58 E. C.
Frank Sumner Rice,	*Elmira, N. Y.*	62 Bushkill St.
Clarence Henderson Risk, †	*Muncy*,	2 W. C.
Horace Roland,	*New Holland*,	13 B. H.
William Shippen Roney,	*Belvidere, N. J.*	18 B. H.
Alexander Hamilton Sherrerd,	*Oxford, N. J.*	58 E. C.
David Jewett Waller,	*Bloomsburg*,	32 E. C.
James Hervey Wright,	*Lower Chanceford*,	49 E. C.
John Russel Youngman,	*Winfield*,	37 E. C.
James Patterson Ziegler,	*Mount Joy*,	37 E. C.

SOPHOMORES, ... 31

* Died December 9, 1867.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Laird Howard Barber,	*Mifflinburg*,	7 B. H.
Harry Calvin Beitel,	*Easton*,	51 E. C.
Isaac Borts,	*Middle Spring*,	53 E. C.
Frank Boyle,	*New Alexandria*,	17 B. H.
Edward Bryan,	*Washington, N. J.*	2 B. H.
Alexander Bryden,	*Pittston*,	20 E. C.
Norris Hunter Cone,	*Cambridge, Md.*	43 E. C.
James Camp Crawford,	*Herrick*,	54 E. C.
John Martin Crawford,	*Herrick*,	54 E. C.
Charles Henry Dickenshied,	*Spinnerstown*,	3 W. C.
James Pringle Dickson,	*Scranton*,	24 E. C.
Francis Woolworth Edgar,	*Easton*,	22 E. C.
Philip Adam Gerberich,	*Lebanon*,	17 Northampton St.
Horace Pellman Glover,	*Hartleton*,	30 E. C.
Fisher Gutelius,	*Mifflinburg*,	8 B. H.
James Alexander Hand,	*Bloomsbury, N. J.*	Prof. Eckard's.
Olin Frisbie Harvey,	*Wilkesbarre*,	5 W. C.
Oscar Jewell Harvey,	*Wilkesbarre*,	6 W. C.
Robert McCheyne Hays,	*Middle Spring*,	53 E. C.
Frank Bernard Heckman,	*Phillipsburgh, N. J.*	31 E. C.
John Jacob Heiney,	*Easton*,	51 E. C.
George Snavely Henry,	*Lebanon*,	17 Northampton St.
Robert Hopewell Hepburn,	*Williamsport*,	1 W. C.
Harlan Page Hess,	*Easton*,	130 Northampton St.
William James Hogg,	*Philadelphia*,	Prof. Eckard's.
John Bryson Hudson,	*Walker*,	7 W. C.
Jacob Benezet Juvenal,	*Philadelphia*,	Lafayette Park.
Theodore Cuyler Juvenal,	*Philadelphia*,	Lafayette Park.
William St. George Kent,	*Phillipsburgh, N. J.*,	46 E. C.
Heinrich Wilhelm Adolph Leue,	*Hösseringen, Prussia*,	Prof. Eckard's.
Bradley Wakeman Lewis,	*Spring Hill*,	54 E. C.
Charles McCauley,	*Altoona*,	27 E. C.
James Alexander McKnight,	*Chambersburg*,	27 E. C.
George King McMurtrie,	*Belvidere, N. J.*	16 B. H.
William McMurtrie,	*Belvidere, N. J.*	16 B. H.
John Dusenberre Maxwell,	*Easton*,	22 E. C.
John Meigs,	*Pottstown*,	28 E. C.

FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
James Allen Menaul,	*Tyrone, Ireland,*	60 E. C.
Allan Cuningham Milliken,	*Hollidaysburg,*	Prof. Porter's.
William Gad Morgan,	*Danville,*	7 W. C.
Franklin Theodore Oldt,	*New Berlin,*	30 E. C.
John J. Pollock,	*Fall Brook,*	56 E. C.
Charles Albert Sandt,	*Easton,*	187 Northampton St.
John Scollay,	*Westminster, Mass.,*	5 W. C.
Zant McDonald Smith,	*Pittsburgh,*	14 E. C.
Thomas Love Springer,	*Loveville, Del.,*	28 E. C.
Willard Springer,	*Loveville, Del.,*	28 E. C.
Aaron Swartz,	*Kulpsville,*	3 W. C.
William Kelly Tully,	*Belvidere, N. J.*	34 E. C.
Robert Love Walker,	*Mermaid, Del.*	13 E. C.
John Elfreth Watkins,	*Richmond, Va.*	13 B. H.
Isaac Henry Welling,	*Belvidere, N. J.*	78 Centre Square.
William Wiely, Jr..	*Downingtown,*	78 Centre Square.
Samuel Geddes Wilson,	*New Berlin,*	30 E. C.
Daniel Burton Wood,	*Allentown,*	50 E. C.
John Marshall Young,	*Easton,*	31 E. C.
Thomas William Youngman,	*Mifflinburg,*	7 B. H.
Walter Macon Lowrie Ziegler,	*Mount Joy,*	13 B. H.
FRESHMEN, ...		58

SUMMARY.

Resident Graduates,		3
Undergraduates,	Seniors,	17
	Juniors,	19
	Sophomores,	31
	Freshmen,	58
	Total,	128

Massachusetts,	1	Virginia,	1
New York,	3	District of Columbia,	1
New Jersey,	19	Michigan,	1
Pennsylvania,	92	Louisiana,	1
Delaware,	3	Ireland,	1
Maryland,	4	Prussia,	1

COURSES OF STUDY.

I. CLASSICAL COURSE.

The CLASSICAL COURSE is the same as the Undergraduate course of our best colleges; it will be pursued here, as it has so long been, as the regular introduction to the special professional study of Theology, Medicine, or Law, and also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

II. PARDEE SCIENTIFIC COURSE.

It is evident, however, that the number of students in our country is great, and constantly increasing, who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best colleges, and who would be glad to enjoy the cultivation and learned habits and associations of college life, but who will not study Greek and Latin.

To secure these advantages for such as prefer to pursue their studies at Lafayette College, A. PARDEE, Esq., of Hazleton, Pennsylvania, has placed in the hands of the Trustees the sum of $120,000.* This has enabled the Board to add to the Faculty of the College eminent instructors in the

* At the meeting of the Board of Trustees in July last, Mr. PARDEE offered $80,000 additional to the munificent sum of $120,000 already contributed by him, provided the friends of the College would add $120,000 to the present endowment of the College. Of this sum, Mr. WILLIAM ADAMSON, of Philadelphia, and Mr. THOMAS BEAVER, of Danville, have (in addition to their previous donations) each subscribed ten thousand dollars, leaving $100,000 yet to be secured before the whole sum is available.

various Departments of Physical Science; and the munificence of the citizens of Easton and of friends of the College elsewhere, has supplied funds for the buildings and apparatus necessary for a thorough Course of Instruction in the studies above mentioned. The Trustees have accordingly established such a course under the name of the PARDEE SCIENTIFIC COURSE IN LAFAYETTE COLLEGE.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old college studies to manly culture and religious training, have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old land-marks, and that as far as possible the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, may be so adapted to the students of the new course as to give in a good degree the same kind of discipline that is derived from the study of Greek and Latin.

III. SPECIAL AND POST-GRADUATE STUDIES OF THE PARDEE SCIENTIFIC COURSE.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here, every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the

mountains, and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the general SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, optional studies are arranged for the Senior year and for a POST-GRADUATE COURSE, so that the students may, if they choose, devote themselves to studies essentially practical and technical, viz.

I. ENGINEERING, Civil, Topographical and Mechanical.

II. MINING and METALLURGY.

III. ANALYTICAL CHEMISTRY, with its application to AGRICULTURE and to MANUFACTURES and the ARTS.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

It is perhaps scarcely necessary to add that the Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that science shall be here so taught as to become the handmaid of religion. All the departments will be in the hands of Christian scholars, who will not fail to improve, in their various instructions, the opportunity constantly recurring of directing the student from Nature to Nature's God. But in addition to this and also to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Course, special lectures will be given upon the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (six books of the Æneid); Cicero's Select Orations; Arnold's Latin Prose Composition (xii. chapters); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§); or other authors fully equivalent in quantity to the above.

Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are also examined in the studies gone over by the class which they propose to enter; but no student will be admitted to the Senior Class after the beginning of the second session.

Special Studies.—Any person who is prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as a special student.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

Age.—No one can be admitted to the Freshman Class until he has completed his fourteenth year; and no one to advanced standing without a corresponding increase of age.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

FRESHMAN YEAR.

FIRST TERM.

Classical Course.	Pardee Scientific Course.
Algebra, Loomis's, (commenced.)	Algebra, Loomis's, (commenced.)
Livy.	French.
Xenophon, Cyropædia.	English, March's Method.
Latin Composition.	Chemistry.
English Composition.	English Composition.
Classical Geography.	Ancient Geography.
Old Testament, in English.	Old Testament.
Coleman's Biblical Geography.	Coleman's Biblical Geography.
Lectures on Health.	Lectures on Health.
	Geographical Drawing.

SECOND TERM.

Geometry, Loomis's, (commenced.)	Geometry, Loomis's, (commenced.)
Livy.	French.
Herodotus.	German.
Latin Composition.	Chemistry.
English Composition.	English Composition.
Old Testament, in English.	Old Testament.
Coleman's Biblical Geography.	Coleman's Biblical Geography.
Greek Antiquities.	Geometrical Drawing.

THIRD TERM.

Algebra, (completed.)	Algebra, (completed.)
Geometry, (completed.)	Geometry, (completed.)
Horace.	Modern Languages.
Greek Testament, Mark.	Mineralogy.
English Composition.	English Composition.
Roman Antiquities.	Geometrical Drawing.
New Testament, in English.	New Testament.
Coleman's Biblical Geography.	Coleman's Biblical Geography.
Greek Composition.	

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin in the Classical Course, and from French and German in the Scientific Course.

SOPHOMORE YEAR.

FIRST TERM.

Classical Course.	Pardee Scientific Course.
Trigonometry, Loomis's.	Trigonometry, Loomis's.
Horace.	French.
Xenophon, Memorabilia.	German.
Greek Composition.	Chemistry, (optional.)
Study of Words, Trench.	Study of Words, Trench.
Rhetoric.	Rhetoric.
Greek Testament, Acts.	Acts of the Apostles.
Declamations and Themes.	English, Bunyan.
	Declamations and Themes.

SECOND TERM.

Conic Sections, Coffin's.	Conic Sections, Coffin's.
Mensuration, Loomis's.	Mensuration, Loomis's.
Homer, Iliad.	German.
Cicero, De Oratore.	English, Spenser.
Greek Testament, Acts.	Acts of the Apostles.
Archæology of Greek Literature and Art.	Chemistry, (optional.)
Declamations and Themes.	Botany.
	Geometrical and Topographical Drawing.
	Declamations and Themes.

THIRD TERM.

Analytical Geometry.	Analytical Geometry.
Differential and Integral Calculus.	Differential and Integral Calculus.
Navigation and Surveying, Loomis's.	Navigation and Surveying, Loomis's.
Homer, Iliad.	Modern Languages.
French.	English, Chaucer.
Archæology of Roman Literature and Art.	Archæology of Biblical Literature.
Greek Testament, Acts.	Acts of the Apostles.
Declamations and Themes.	Botany. Drawing of Plants.
	Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Classical Course.	Pardee Scientific Course.
Natural Philosophy, (commenced.)	Natural Philosophy, (commenced.)
Demosthenes, De Corona.	French.
History of Greece.	English, Daniel Webster.
Cicero, Tusculan Disputations.	Chemistry.
German.	Linear Perspective.
Greek Testament, Romans.	Zoölogy.
Declamations, Themes, and written Debates.	New Testament Epistles.
	Geometrical and Topographical Drawing.
	Declamations, Themes, and written Debates.

Elective.

SECOND TERM.

Natural Philosophy, (continued.)	Natural Philosophy, (continued.)
Tacitus, Germania and Agricola.	Zoölogy, Taxidermy.
Anglo-Saxon, March's Grammar and Reader.	Anglo-Saxon, March's Grammar and Reader.
English, Milton.	English, Milton.
Fowler's English Language.	Linear Perspective, (optional.)
Constitution of the United States.	Constitution of the United States.
Political Philosophy.	Political Philosophy.
Greek Testament, Romans.	New Testament Epistles.
Declamations, Themes, and written Debates.	Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)	Natural Philosophy, (completed.)
Spherical Trigonometry.	Spherical Trigonometry.
Greek Tragedies.	Mineralogy.
Anglo-Saxon, (continued.)	Anglo-Saxon, (continued.)
Greek Harmony of the Gospels, Robinson's.	Modern Languages.
	Machine Drafting.
Greek Testament, Romans.	New Testament Epistles.
English, Shakespeare.	English, Shakespeare.
Fowler's English Language.	Declamations, Themes, and Extemporaneous Speaking.
Declamations, Themes, and Extemporaneous Speaking.	

SENIOR YEAR.

FIRST TERM.

Classical Course.	Pardee Scientific Course.
Mental Philosophy, (commenced.)	Mental Philosophy, (commenced.)
Astronomy, (commenced.)	Astronomy, (commenced.)
Chemistry.	Chemistry, (optional.)
Plato.	Modern Languages.
Greek Literature.	Modern Literature.
Anatomy and Physiology.	Anatomy and Physiology.
Confession of Faith.	Confession of Faith.
Rhetoric.	Rhetoric.
Themes, and Extemporaneous Speaking.	Themes and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)	Mental Philosophy, (completed.)
Political Economy.	Political Economy.
Logic.	Logic.
Moral Philosophy.	Moral Philosophy.
Evidences of Christianity.	Evidences of Christianity.
Geology, Hitchcock's, (commenced.)	Geology, Hitchcock's, (commenced.)
History.	History.
Latin Literature.	Modern Languages. } Elective.
Juvenal and Persius. } Elective.	Astronomy, (completed.) } Elective.
Astronomy, (completed.) } Elective.	Physical Geography. } Elective.
Hebrew, Green's Grammar and Chrestomathy. } Elective.	Themes, and Extemporaneous Speaking.
Mineralogy.	
Themes, and Extemporaneous Speaking.	

THIRD TERM.

Butler's Analogy.	Butler's Analogy.
Geology, Hitchcock's, (completed.)	Geology, Hitchcock's, (completed.)
Botany.	Natural History.
English Literature.	English Literature.
Latin and Greek Literature.	Archæology of Literature.
Architecture.	Architecture.
Comparative Philology.	Comparative Philology.
History. } Elective.	History. } Elective.
Hebrew, Green's Grammar, and Chrestomathy. } Elective.	Modern Languages. } Elective.
Themes, and Extemporaneous Speaking.	Themes, and Extemporaneous Speaking.

In place of the general course of the Senior year, those students who desire to pursue technical and professional studies may substitute any one of the following courses by giving notice to the President before the close of the Junior year.

ENGINEERING COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Spherical Trigonometry.	Geology and Physical Geography.	Construction of Engineering and Architectural Works.
Mechanics; Theory of Machines, Strength and Stability of Structures, and Mechanics of Fluids.	Road Engineering; Theory and Practice.	Designs for, and Examinations of Special Works.
Problems in Stone Cutting and Constructions.	Construction of Engineering and Architectural Works.	Plans, Profiles, and Sections of Railway Surveys.
Drawing Maps of Hydrographical Surveys.	Theory of Machines.	Biblical Exercise.
Biblical Exercise.	Machine Drafting.	General Reviews.
Astronomy and Mental Philosophy, (optional.)	Biblical Exercise.	
	Astronomy and Moral Philosophy, (optional.)	

CHEMICAL COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Technical Chemistry; Qualitative and Quantitative Analysis; use of the Blow-pipe.	Technical Chemistry.	Technical Chemistry.
Determinative Mineralogy.	Assaying.	Special Applications of Chemistry in Agriculture and the Arts.
Biblical Exercise.	Geology and Phys. Geog.	Geology and Physical Geography.
Astronomy and Mental Philosophy, (optional.)	Construction of Chemical Works.	Biblical Exercise.
	Biblical Exercise.	General Reviews.
	Astronomy and Moral Philosophy, (optional.)	

MINING COURSE.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Mechanics; Theory of Machines and Mining Tools, Strength and Stability of Structures, Mechanics of Fluids.	Geology and Physical Geography.	Construction and Engineering of Mines.
Technical Chemistry; Qualitative and Quantitative Analysis; Use of the Blow-pipe.	Assaying.	Plans, Profiles, and Sections of Mines.
Determinative Mineralogy.	Metallurgy.	Examination of Mines and Mining Works.
Biblical Exercise.	Construction of Furnaces.	Treatment of Special Ores.
Astronomy and Mental Philosophy, (optional.)	Survey and Exploitation of Mines.	Geology and Physical Geography.
	Biblical Exercise.	Biblical Exercise.
	Astronomy and Moral Philosophy, (optional.)	General Reviews.

THE POST-GRADUATE COURSE.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor of that Department, and have the use of the Laboratories, Apparatus, Collections, Library, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Their general range may be found on page 28. Particular information may be obtained by addressing the President.

SUMMARY OF EXERCISES OF PRACTICE.

ASTRONOMY.	Use of Instruments. Working of Observatory.
BOTANY.	Field Excursions; preparation of herbarium; original description and drawing of plants, etc.
CHEMISTRY.	Manipulations in the Laboratory throughout the course.
DRAWING.	Throughout the course.
ENGINEERING.	Visits to works, and reports on them, giving plans, etc.; construction of models.
GEOLOGY.	Field excursions.
MINERALOGY.	Field excursions; manipulations of minerals, rocks, and metallurgical specimens; with the use of the blow-pipe.
MINING.	In the advanced course of Mining and Chemistry, application will be made in behalf of some of the best students to work during vacation in particular mines or manufactories.
ORATORY.	Declamations in class every week. A public exercise every Thursday morning in Chapel, at which all the students are present, and the classes speak by divisions. Seniors deliver original compositions.
SURVEYS.	Levelling; calculation of excavations; surface, and underground surveys; visits to mines and metallurgical works.
THEMES.	Original compositions upon assigned subjects.
ZOÖLOGY	Taxidermy; Drawing.

SPECIAL REMARKS UPON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In this year also, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In the Senior year, are studied the Old Testament, in the original Hebrew, (an elective study,) the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to, as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy, and *Alexander's Moral Science* are used as text-books during the first and the second term of Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most famous authors, and by class-discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of Classic authors is accompanied with daily lessons in Grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

Freshman Year,	*First Term.*	General rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology, (commenced.)
	Third Term.	Etymology of Verbs. Prosody, (Latin.)
Sophomore Year,	*First Term.*	Syntax, (commenced.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Demosthenes, Tacitus, Cicero, and Plato, in these relations.

Harkness' Grammar and Andrews' Lexicon are used for Latin, Hadley's Grammar and Liddell and Scott's Lexicon for Greek. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author and his life and times are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

It is believed that the culture in this department will be to a considerable extent a substitute in the Scientific course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary are used in this department.

ANGLO-SAXON, GERMAN and FRENCH, are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other, and language in general.

ANGLO-SAXON, ENGLISH, GERMAN, and FRENCH, are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE FOR PROFICIENCY IN ENGLISH PHILOLOGY.

An annual prize of thirty dollars was founded in 1862 by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior class has made the greatest proficiency in English Philology."

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1867 were examined on the English translations of the Bible. Equal prizes were awarded to J. M. Pfouts, and R. H. Smith.

RHETORIC.

Besides the study of text books, weekly written essays are required, and declamations are had every Saturday in class, and every Thursday before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

BOTANY, ZOOLOGY, GEOLOGY.

Freshman Year,	*Third Term,*	Mineralogy.
Sophomore Year,	*Second Term,*	Botany, (commenced.)
	Third Term,	Botany, (continued.)
Junior Year,	*First Term,*	Zoölogy, (commenced.)
	Second Term,	Zoölogy, (completed.)
Senior Year,	*Second Term,*	Mineralogy, Geology.
	Third Term,	Geology, Botany.

The exercises of the Freshman, Sophomore, and Junior Years, belong to the Scientific Course; those of the Senior Year belong also to the Classical Course. The instruction includes structural and descriptive science, —field excursions for observation and collection, preparation and care of specimens, drawing, the use of the microscope, blow-pipe, and other means of refined observation. The collections in Botany are most ample. During the past year there has been added to the College Herbarium, as a gift from Professor Porter, the whole of his extensive collection, the fruits of more than twenty years labor on the part of the Professor and his assistants. The special value of this collection is its Flora of Pennsylvania, which is believed to be the most complete in existence. In GEOLOGY, beside the text-book study, Prof. Hitchcock delivers a course of lectures, for which he has at his command, besides the Cabinets of the College, the unsurpassed apparatus for illustration prepared for the lectures of the late President Edward Hitchcock, as well as his own more recent preparations and collections made in Europe, and as State Geologist of North Carolina, Vermont, and Maine.

In the *Mining Course* further instruction is given in Mineralogy and Geology in their relations to that art. These studies may also be pursued in a POST-GRADUATE course.

MATHEMATICS, PHYSICS, AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole course. The subjects studied are as follows:

Freshman Year,	*First Term,*	Algebra, (commenced.)
	Second Term,	Geometry, (commenced.)
	Third Term,	Algebra and Geometry, (completed.)
Sophomore Year,	*First Term.*	Plane and Spherical Trigonometry.
	Second Term,	Conic Sections, Mensuration.
	Third Term,	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
Junior Year,	*First Term,*	Natural Philosophy, (commenced.)
	Second Term,	Natural Philosophy, (continued.)
	Third Term,	Natural Philosophy, (completed.)
Senior Year,	*First Term,*	Astronomy, (commenced.)
	Second Term,	Astronomy, (completed.)

Students in the Scientific Course study also Linear Perspective, Shades and Shadows, Drawing, in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

Text-books are used as mentioned on pages 16, 17, but it is made the main effort to teach the *Subjects.* In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied mathematics students are practised in the handling of instruments, the taking of observations, and in field work of every kind. In Astronomy they are taught the working of the Observatory.

During the past year two prizes have been founded in this department. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. The second prize consists of twenty dollars, and is awarded for proficiency in Mathematical studies.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. Students are invited to pursue Analytical Chemistry through the rest of the course. Part of the Jenks Hall is fitted up with experiment desks and other apparatus, so that each student may have every aid known to modern educators in prosecuting his studies.

For the more advanced Chemical studies of the Scientific Course see pages 20 and 28.

HISTORY. POLITICAL PHILOSOPHY.

Freshman Year,	*First Term,*	History of Rome.
	Second Term,	History of Rome.
Junior Year,	*First Term,*	History of Greece.
	Second Term,	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
Senior Year,	*Second Term,*	History. (Lectures.) Political Economy.
	Third Term.	History. (Lectures.)

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the Conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a Course of Lectures in the Senior year.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

Freshman Year,	*First Term,*	Lectures on Health.
Junior Year,	*First Term,*	General Principles of Physiology.
Senior Year,	*First Term,*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized to secure healthful daily exercise and recreation to all the students, and to teach

them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. This physical training is to be part of the regular College course, and to be under the immediate supervision of a Professor of Physical Culture. This chair is, however, now vacant.

SPECIAL STUDIES OF THE PARDEE SCIENTIFIC COURSE.

CIVIL, TOPOGRAPHICAL, AND MECHANICAL ENGINEERING.

The studies of this department in the Senior year of the PARDEE SCIENTIFIC COURSE and in the POST-GRADUATE COURSE, are designed to give professional preparation for the location, construction and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvements; the determination of Latitude, Longitude, Time, and the Meridian; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical, and machine drawings.

MINING.

This department offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawing; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines. Any person who is prepared to pursue these studies with advantage may be received as a special student.

CHEMISTRY.

Students in this department are required to perform operations themselves, every facility for which is found in the Laboratory of JENKS CHEMICAL HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries. Any person who is prepared to pursue these studies with advantage may be received as a special student.

BUILDINGS AND COLLECTIONS.

A handsome and commodious building for the Chemical department has been erected by the liberality of B. H. JENKS, Esq., of Bridesburg, and is fitted up with all the most approved modern appliances, for operation in inorganic, organic, and analytical Chemistry, and especially in Assaying and Metallurgy.

The ASTRONOMICAL OBSERVATORY, which has just been erected for the College by the liberality of Professor TRAILL GREEN, consists of a Tower and two Transit Rooms, with a Lecture Room attached. It is fitted up with a revolving dome and telescope, a transit instrument, and other apparatus for the observation of astronomical facts, and for the thorough study of Astronomy.

The citizens of Easton have recently subscribed $20,000 toward a fund "for the erection of new buildings, or the enlargement of the present buildings," and the Trustees have adopted the plans of John McArthur, Esq., of Philadelphia, for spacious additions to the main College edifice. The foundation of one wing has been laid, and the whole structure will be completed as soon as the funds of the Institution will permit. In the enlarged building, besides additional lecture-rooms and rooms for the accommodation of students, there will be large Halls appropriated to Museums and Cabinets. These, when completed, are designed to illustrate all the departments of Natural Science, especially Mineralogy and Lithology, Geology and Palæontology, Botany and Zoölogy. Collections are also making of models and drawings of furnaces, mining tools, machines, and structures instructive to the Engineer and Architect.

The College Library and Cabinets have also received during the last year valuable additions through the generosity of Dr. J. M. JUNKIN, Class of '41; FRANK D. HETRICH, Class of '59; WM. G. CAIRNES, Class of '65; A. PARDEE & Co., Hazleton; IRONTON IRON CO., Allentown; THOMAS BEAVER, Danville; Prof. JOSEPH LEIDY, M. D., Rev. Dr. BEADLE, WM. TRAUTWINE, A. L. SNOWDEN, and Rev. J. H. BAIRD, of Philadelphia; ISAIAH RICHARDS, Columbia; THOMAS DICKINSON, Pottsville; WM. DALE, N. J.; Capt. ELLIOT, Chester, Mass.; Rev. THOMAS S. DEWING, N. Y.; WILLIAM H. LAWALL, J. F. THOMPSON & Co., WILLIAM HACKETT, Jr., and ADDIS M. AYAR, of Easton; besides Collections gathered and presented by the Professors and students of the College.

The Trustees earnestly call the attention of the Alumni and friends of the College to this subject, and beg them to unite in the effort now making to increase the Library and to complete these Collections at an early day, by donations either in money or in Specimens, Books, &c.

DEGREES.

Bachelor's Degree.—In addition to the usual degree of BACHELOR OF ARTS conferred upon the graduates of the Classical department, those students in the Scientific department who have completed the full course of four years, and passed a satisfactory final examination, and who have submitted to the Board of Examiners an approved Thesis upon a subject embraced in one of the Technical Courses, will be admitted to the degree of BACHELOR OF SCIENCE.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has, during that time, sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any BACHELOR OF SCIENCE who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere, for three or more years, engaged in scientific pursuits, and during that time sustained a good moral character

Those desiring the MASTER'S degree should make written application to the President at least two weeks before commencement. The fee, including diploma, is $6.

Certificates.—Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on Sabbath afternoon. On Sabbath morning, students attend services in one of the churches of the Borough. Social prayer-meetings on two other evenings of the week have long been maintained by the students. Thursday evening there is divine service, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

EXPENSES, &c.

Tuition, (to those not on scholarships,)	per session,		$15 00
Fuel,	(average,)	"	5 00
Room rent,	do.	"	3 50
General expense,		"	5 00
For the use and increase of the Library,		"	1 00

The matriculation or admission fee is $3; the fee for diploma, &c., at graduation, is $6. The matriculation fee and all fees for diplomas are appropriated to the Library fund.

The fees for students pursuing advanced studies in Chemistry, Mining, Engineering, &c., may be learned on application to the President.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the professional courses in the Senior year, in which case he must pay for that year one-half the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, and for the benefit of young men of talents and good moral character. Application for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs is from $2.75 to $4.25 per week. Board, including room, in private families, is from $5 to $6 per week.

Tuition, room-rent, general expense, and charge for Library, must be paid each session in advance; and no student is permitted to recite until the receipt of the Treasurer is obtained. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills and transmitting an account of the expenditure; for which services he will charge a commission.

Societies.—There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well furnished Halls. Each Society has also a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address, on Sabbath evening preceding Commencement.

The ALUMNI SOCIETY is composed of graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

The READING ROOM is under the control of a Society for procuring and preserving standard periodicals and books of reference. Any student may become a member. Its hall is open daily (Sundays excepted) for general reading out of study hours.

Libraries.—The College Library is open Mondays and Thursdays, at 9 o'clock, A. M.; that of the Franklin Society, on Saturday afternoon; of the Washington Society, on Thursday morning; and of the Brainerd Society, at its regular meetings.

Terms and Vacations.—The college year is divided into three terms or sessions. The Annual Commencement is on the last Wednesday of July, and the first term of the next College year begins six weeks after, and continues fourteen weeks. A vacation of four weeks follows, after which the second term begins, and continues thirteen weeks. The last session commences on Thursday, twelve weeks preceding Commencement. For the Calendar, see page 2.

Students are required to be present punctually at the commencement of each session, and are not allowed during term-time to be absent from town, except by written permission from the President.

A record is kept of the punctuality, diligence, scholarship, and general behaviour of each student; a report of which is sent to the parent or guardian at the close of each session.

All the classes are examined at the close of the first and the second session; the Senior class is examined four weeks before Commencement; the three lower classes the week preceding Commencement.

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CATALOGUE

OF THE

Officers and Students

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1869—1870,

WITH THE COURSES OF STUDY.

EASTON, PA.
1870.

COLLEGE CALENDAR.

1869.

September 16, Thursday. First term commenced.
December 22, Wednesday. First term ended.

VACATION OF TWO WEEKS.

1870.

January 6, Thursday. Second term commences.
March 23, Wednesday. Second term ends.

VACATION OF TWO WEEKS.

April 7, Thursday. Third term commences.
June 13—15. Final examination of the Senior Class.
June 23—27. Examination of the lower classes.
June 26, Sunday, A. M. Baccalaureate Sermon.
June 26, Sunday, P. M. Sermon before the Brainerd Missionary Society.
June 27, Monday, 4 P. M. Addresses from the Committee of Synod.
June 28, Tuesday, A. M. Re-union meetings of the Literary Societies.
June 28, Tuesday, P. M. Meeting of the Society of Alumni.
June 28, Tuesday Evening. Oration before the Literary Societies.
June 29, Wednesday. Commencement exercises.

VACATION OF NINE WEEKS.

August 31, Wednesday. Examination for admission.
September 1, Thursday. First term commences.
December 21, Wednesday. First term ends.

VACATION OF TWO WEEKS.

1871.

January 5, Thursday. Second term commences.
March 22, Wednesday. Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

Hon. JAMES POLLOCK, LL.D., President,	Philadelphia.
Rev. S. M. ANDREWS, D. D., Secretary,	Doylestown.
Rev. SEPTIMUS TUSTIN, D. D.,	Washington City.
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McEVERS FORMAN, Esq.	"
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MEMBERS OF THE FACULTY.

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ADAMSON PROFESSOR OF GENERAL AND APPLIED CHEMISTRY.

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PROFESSOR OF MODERN LANGUAGES.

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ROBERT BARBER YOUNGMAN, A. M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

.....
PROFESSOR OF PHYSICAL CULTURE.

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LECTURER ON GEOLOGY AND MINERALOGY.

SELDEN JENNINGS COFFIN, A. M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

JAMES W. MOORE, A. M., M. D.,
ADJUNCT PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

EDWARD STEWART MOFFAT, A. M., M. E.,
ADJUNCT PROFESSOR OF MINING AND METALLURGY.

JOHN BOYD GRIER, A. M.,
TUTOR IN MODERN LANGUAGES.

WALTER QUINCY SCOTT, A. B.,
TUTOR IN ANCIENT LANGUAGES.

CHARLES McINTIRE, B. S.,
ASSISTANT IN CHEMISTRY.

ABRAM PASCHAL GARBER, B. S.,
ASSISTANT IN NATURAL HISTORY.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

John W. Garrett, Esq.,	Baltimore, Md.
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Charles F. Norton, Esq.,	Philadelphia.
Selden T. Scranton, Esq.,	Oxford, N. J.
A. A. Douglas, Esq.,	Mauch Chunk.
Hon. Robert McKnight,	Pittsburgh.
John Leisenring, Esq.,	Mauch Chunk.
Thomas Dickson, Esq.,	Scranton.

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Rev. John Moore,	Philadelphia.
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Joseph Harvey, Esq.,	Philadelphia.

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Henry Thomas Lee, Esq.,	New York.
William Kennedy, Esq.,	Chambersburg.

STUDENTS.

REFERENCES.

East College, E. C.—West College, W. C.—Blair Hall, B. H.—Newkirk Hall, N. H. Martien Hall, M. H.—Powell Hall, P. H.—Partial Course, †

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Robert James Hess, A. B.,	Lafayette, 1867,	Chemistry.
Addison Storrs Lewis, B. S.,	Miami Univer., 1869,	Engineering.
Harmar D. McKnight, A. B.,	Lafayette, 1869,	Mining & Metallurgy.
Michael Servetus Seip, A. B.,	Lafayette, 1868,	Mining & Metallurgy.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Joseph Henry Brensinger,	*Media*,	18 N. H.
Richard William Dickinson Bryan,	*Washington, N. J.*,	19 B. H.
Charles Keeler Canfield,	*Stevensville*,	37 E. C.
Lucien Wilson Doty,	*Mifflintown*,	17 N. H.
Jonathan Emmert,	*Benevola, Md.*,	37 E. C.
William Gemmill,	*Milroy*,	21 E. C.
Joseph Johnson Hardy,	*St. Clair*,	45 E. C.
William Gray Heller,	*Easton*,	35 E. C.
Terence Jacobson,	*Baltimore, Md.*,	36 E. C.
Samuel Huntzinger Kaercher,	*Pottsville*,	45 E. C.
Winfield Scott Kennedy,†	*Greencastle*,	16 B. H.
Thomas McDowell Nelson,†	*Chambersburg*,	27 E. C.
Frank Hammond Piatt,	*Tunkhannock*,	35 E. C.
James Wilson Piatt,	*Tunkhannock*,	35 E. C.
Horace Roland,	*New Holland*,	13 B. H.
William Shippen Roney,	*Belvidere, N. J.*,	12 E. C.
Alexander Hamilton Sherrerd,	*Belvidere, N. J.*,	8 M. H.
David Jewett Waller, Jr.,	*Bloomsburg*,	32 E. C.
James Hervey Wright,	*McSherryville*,	21 E. C.
John Russel Youngman,	*Winfield*,	7 M. H.
James Patterson Ziegler,	*Mount Joy*,	47 E. C.

SENIORS, ... 21

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
John Stockton Axtell,	*Sulphur Springs, Ohio,*	3 W. C.
Laird Howard Barber,	*Mifflinburg,*	13 M. H.
Isaac Borts,	*Middle Spring,*	8 W. C.
Frank Boyle,	*New Alexandria,*	27 E. C.
Matthew Henry Bradley,	*Mercersburg,*	58 E. C.
Edward Bryan,	*Washington, N. J.,*	20 B. H.
Alexander Bryden,	*Pittston,*	4 W. C.
Norris Hunter Cone,	*Towsontown, Md.,*	43 E. C.
John Cowan,	*Sadsburyville,*	9 N. H.
James Camp Crawford,	*Herrick,*	36 E. C.
John Martin Crawford,	*Herrick,*	43 E. C.
Benjamin Douglass, Jr.,	*New York City,*	15 E. C.
Sylvanus Henry Easton,	*Belvidere, N. J.*	1 P. H.
Francis Woolworth Edgar,	*Easton,*	22 E. C.
Thomas McKeen Farquhar,	*Easton,*	20 E. C.
William Shouse Fulton,	*Merrittstown,*	60 E. C.
Horace Pellman Glover,	*Hartleton,*	11 N. H.
Fisher Gutelius,	*Mifflinburg,*	2 P. H.
Jonathan Moore Harris,	*Phillipsburg, N. J.,*	12 P. H.
Olin Frisbie Harvey,	*Wilkesbarre,*	23 E. C.
Oscar Jewell Harvey,	*Wilkesbarre,*	23 E. C.
Robert McCheyne Hays,	*Chambersburg,*	58 E. C.
Frank Bernard Heckman,	*Phillipsburg, N. J.,*	31 E. C.
James Theodore Houston,	*Olivesburg, Ohio,*	3 W. C.
John Bryson Hudson,	*Howard,*	7 W. C.
William St. George Kent,	*Phillipsburg, N. J.,*	22 E. C.
David Bennett King,	*Mt. Pleasant,*	2 N. H.
Bradley Wakeman Lewis,	*Spring Hill,*	33 E. C.
Abram Worman Long,	*Point Pleasant,*	62 Bushkill St.
Henry Kinzer McClelland,†	*Gap,*	48 E. C.
James Alexander McKnight,	*Chambersburg,*	12 E. C.
George King McMurtrie,	*Belvidere, N. J.,*	8 M. H.

JUNIORS—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
William McMurtrie,	*Belvidere, N. J.*	8 M. H.
John Meigs,	*Pottstown,*	9 P. H.
Franklin Theodore Oldt,	*New Berlin,*	13 E. C.
William Baxter Owen,	*Wysox,*	4 N. H.
Joseph Rogers Paull,	*Connellsville,*	60 E. C.
John Findlater Pollock,	*Fall Brook,*	16 M. H.
Charles Albert Sandt,	*Easton,*	187 Northampton St.
John Scollay,	*Westminster, Mass.*	20 E. C.
Thomas Love Springer,	*Loveville, Del.*	28 E. C.
Willard Springer,	*Loveville, Del.*	28 E. C.
Aaron Swartz,	*Kulpsville,*	15 B. H.
John Elfreth Watkins,	*Richmond, Va.*	7 M. H.
William Wiely, Jr.,	*Downingtown,*	10 N. H.
James William Wilson,†	*Easton,*	7 B. H.
Samuel Geddes Wilson,†	*New Berlin,*	13 E. C.
John Marshall Young,†	*Easton,*	34 E. C.

JUNIORS, ... 48

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Jacob Boyd Andrews,	*Agricultural College,*	11 M. H.
Wallace Shaw Ayres,	*Allamuchy, N. J.*	7 P. H.
William Davidson Babcock,	*Evansville, Ind.*	12 P. H.
James Gray Bolton,	*Philadelphia,*	8 P. H.
William Campbell Brobston,	*Bridgeton, N. J.*	1 W. C.
Algernon David Brown,	*Pottsville,*	46 E. C.
Benjamin Harris Brewster Cameron,†	*Selinsgrove,*	30 E. C.
David Henshey Campbell,	*Antistown,*	9 M. H.
Edmund Southard Doty,	*Mifflintown,*	19 N. H.
William Angus Douglass,	*New York City,*	15 E. C.
Addison Stewart Elliott,	*Callensburg,*	C. P. Miller's.
Thomas Fassitt,	*Philadelphia,*	78 Centre Square.
John Fox,	*Easton,*	9 P. H.
William Pendleton Gaines,	*Columbia, Texas,*	12 B. H.
Jacob S. Gantz,	*Hagerstown, Md.*	52 E. C.
James Isaac Good,	*Reading,*	7 P. H.
John Alexander Gregory,	*Alexandria,*	48 E. C.
Alfred Edwin Grover,	*Richmond, Va.*	. . . .
John Jacob Heiney,	*Easton,*	14 6th St.
Elisha Lewis Hillis,	*Herrick,*	33 E. C.
Samuel Henry Houser,	*Mauch Chunk,*	14 M. H.
Lewis Howell,	*Greenwich, N. J.*	1 W. C.
Cornelius Tyson Kratz,	*Freeland,*	. . . .
John Bryden Law,	*Pittston,*	2 W. C.
William Stokes Long,	*Point Pleasant,*	62 Bushkill St.
Sherwell Kier McBride,	*New Alexandria,*	46 E. C.
Nathan Milroy McCracken,	*Slate Lick,*	19 E. C.
Robert McCheyne McDowell,†	*Slatington,*	59 E. C.
Isaiah McPherson,	*Herrickville,*	14 E. C.
James Allen Menaul,	*Tyrone, Ireland,*	17 B. H.
Francis Gailey Morrow,	*Herrick,*	. . . .
Arthur Julius Pilgrim,	*Columbia, Texas,*	1 B. H.

SOPHOMORES—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
James Hall Rittenhouse,	*Georgetown, D. C.*	12 M. H.
John Eakin Shull,	*Martin's Creek,*	14 P. H.
Harry Augustus Smith,	*Chestnut Hill, Phila.*	13 P. H.
Howard Foster Smith,	*Lyons, Iowa,*	11 M. H.
Sylvester Comstock Smith,	*Essex, Conn.*	51 E. C.
William Ernest Smith,	*Hammonton, N. J.*	49 E. C.
Robert Patterson Snowden.	*Philadelphia,*	14 M. H.
Jefferson Snyder,	*Stonersville,*	14 B. H.
Jacob Steinman Stewart,	*Alexandria,*	48 E. C.
William Semple Sweeny,	*Easton,*	32 N. 2d St.
Clarence Gilbert Voris,	*Danville,*	24 N. H.
William Petrikin Wilson,†	*Huntingdon,*	56 E. C.
Walter Lowry Ziegler,	*Mount Joy,*	47 E. C.

SOPHOMORES, ... 45

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
William Caldwell Anderson,	*Youngstown*,	12 N. H.
Eleazer Jacob Angle,	*Herrick*,	14 E. C.
Lloyd Paxton Appelman,	*Bloomsburg*,	31 E. C.
Edwin Atlee Barber,	*West Chester*,	13 M. H.
Stephen Goodyear Barnes,	*Perth Amboy, N. J.*	49 E. C.
Emery Shepperd Barrick,	*Croton, N. J.*	50 E. C.
William Barrick,	*Croton, N. J.*	50 E. C.
John Rarick Bennett,	*Phillipsburg, N. J.*	53 E. C.
Enoch Benson,	*Bridgeton, N. J.*	18 B. H.
James Calvin Bergstresser,	*Elysburg*,	57 E. C.
George Newton Best,	*Pittstown, N. J.*	10 P. H.
Cicero Brodhead,	*Delaware Water Gap*,	22 N. H.
Daniel Webster Bruckart	*Silver Spring*,	10 M. H.
Herbert Thomas Buckley,	*Easton*,	9 P. H.
John Andrew Canan,	*El Dorado*,	9 M. H.
Elijah Rittenhouse Case,	*Frenchtown, N. J.*	38 E. C.
Benjamin Chambers, Jr.	*Chambersburg*,	16 B. H.
Milton Lewis Cook,	*Merryall*,	43 E. C.
Albert Hatch Davidson,	*Augusta, Georgia*,	19 E. C.
Ambrose T. Dettre,	*Penn Square*,	6 W. C.
John George Diefenderfer,	*Allentown*,	18 B. H.
Frank Drake,	*Easton*,	34 E. C.
Theodore Cowan English,	*Liberty Corner, N. J.*	43 E. C.
John Frace,	*Hecktown*,	57 E. C.
Henry Cooledge Frost,	*Cleveland, Ohio*,	6 M. H.
Thomas Crawford Galbreath,	*Pylesville, Md.*	2 B. H.
William Bigler Gemmill,	*Fawn Grove*,	10 M. H.
Aaron Kerr Hannen,	*Philadelphia*,	6 M. H.
Charles Chauncey Hommann,	*South River, N. J.*	55 E. C.
George Lane Huggins,	*New York City*,	59 E. C.
William Henry Hulick,	*Easton*,	52 E. C.
Stroud Hollinshead Jackson,	*Stroudsburg*,	52 E. C.
Edward Mathias Killough,	*Harrisburg*,	19 E. C.
Cyrus Knecht,	*Easton*,	
Samuel Laughlin,	*Philadelphia*,	
William Raby Little,	*West Chester*,	C. P. Miller's.
John Howard Lott,	*Easton*,	51 E. C.

FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
Thomas McNinch,	*Pottsgrove*,	6 W. C.
Robert W. Mahon,	*Columbia*,	20 N. H.
Ambrose Kirtland Michler,	*Washington, D. C.*	12 M. H.
William Morgan,	*South River, N. J.*	8 P. H.
Alexander Ross Read,	*Clearfield*,	9 M H.
William Blair Reed,	*Chambersburg*,	27 E. C.
William David Reiley,	*Phillipsburg, N. J.*	48 E. C.
Abner Lloyd Rockwell,	*Monroeton*,	18 N. H.
John Milton St. Clair,	*Indiana*,	30 E. C.
Aleck Van Court Schenck,	*Cranbury, N. J.*	8 P. H.
William Henry Schuyler,	*Bloomsburg*,	31 E. C.
Walter Moffat Shanks,	*New York City*,	9 W. C.
Joseph Rosenbery Shimer,	*Martin's Creek*,	14 P. H.
Augustus Thorndike Smith,	*Marshall, Texas*,	1 P. H.
Clayton Kerper Smith,	*Chestnut Hill*,	13 P. H.
Arthur Snyder,	*Easton*,	53 E. C.
Herman Alricks Stees,	*Easton*,	2 P. H.
Wilson Cunningham Sterling,	*New Derry*,	7 W. C.
William Jones Stewart, Jr.	*Duncannon*,	38 E. C.
Rhamanthus Menville Stocker,	*Hamlinton*,	5 W. C.
Henry McDanold Struble,	*Pleasant Valley, N. J.*	8 B. H.
Nathaniel Taylor,	*Mooresburg*,	6 W. C.
William Hart Thompson, Jr.	*Easton*,	56 E. C.
Levi Ellmaker Waller,	*Bloomsburg*,	32 E. C.
Joseph Gilliard Williamson, Jr.	*Sidney, N. J.*	10 P. H.

FRESHMEN, ... 62

Resident Graduates,		4
Undergraduates,	Seniors,	21
	Juniors,	48
	Sophomores,	45
	Freshmen,	62
	Total,	180

Massachusetts,	1	Ohio,	4
Connecticut,	1	Texas,	3
New York,	4	District of Columbia,	2
New Jersey,	28	Virginia,	2
Pennsylvania,	124	Georgia,	1
Delaware,	2	Indiana,	1
Maryland,	5	Iowa,	1
		Ireland,	1

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, and Law, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized in 1866, to carry into effect the conditions of a donation from A. PARDEE, ESQ., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

The Board have thus been enabled to add to the Faculty of the College eminent instructors in the various Departments of Physical Science, and to provide the buildings and apparatus necessary for thorough Courses of Scientific Instruction. The Trustees have accordingly established the PARDEE SCIENTIFIC DEPARTMENT IN LAFAYETTE COLLEGE, including,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best colleges, and who would be glad to enjoy the cultivation and learned habits and associations of college life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that

our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old college studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that as far as possible the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, may be so adapted to the students of the new course as to give in a good degree the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, technical courses of two years each, have been arranged, so that the students may, if they choose, devote themselves during the Junior and Senior years to studies essentially practical and technical, viz.,

I. ENGINEERING, Civil, Topographical and Mechanical. This Course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges;

the trigonometrical and topographical survey of States, Counties, etc., the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. Mining and Metallurgy. This Course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawing; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. Chemistry. This Course includes text-book study, lectures and laboratory practice, every facility for which is found in the Laboratories of Jenks Chemical Hall. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of Trade and Commerce; of Modern Languages and Philology; of Natural History; of Architecture; and of the History and Institutions of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that science shall be here so taught as to become the handmaid of religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Department, special lectures will be given upon the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (six books of the Æneid); Cicero's Select Orations; Arnold's Latin Prose Composition (xii. chapters;) Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—Candidates for admission to full standing in either of the Technical Courses are examined in the Preparatory studies for the General Scientific Course, and also in the branches studied in that course during the Freshman and Sophomore years. The Latin and Greek of the Classical Course may take the place of the Modern Languages of the Scientific Course.

Advanced Standing.—Candidates for advanced standing are also examined in the studies gone over by the class which they propose to enter; but no student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 26 and 27.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (commenced.)
Livy.
Xenophon, Cyropædia.
Latin Composition.
English Composition.
Classical Geography.
Old Testament, in English.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (commenced.)
Livy.
Herodotus.
Latin Composition.
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.
Greek Antiquities.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Horace.
Greek Testament, Mark.
English Composition.
Roman Antiquities.
New Testament, in English.
Coleman's Biblical Geography.
Greek Composition.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Loomis's.
Horace.
Xenophon, Memorabilia.
Greek Composition.
Study of Words, Trench.
Rhetoric.
Greek Testament, Acts.
Declamations and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Mensuration, Loomis's.
Homer, Iliad.
Cicero, De Oratore.
Greek Testament, Acts.
Archæology of Greek Literature and Art.
Declamations and Themes.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Homer, Iliad.
French.
Archæology of Roman Literature and Art.
Greek Testament, Acts.
Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Demosthenes, De Corona.
History of Greece.
Cicero, Tusculan Disputations.
German.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Tacitus, Germania and Agricola.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Greek Testament, Romans.
Declarations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
Spherical Trigonometry.
Greek Tragedies.
Anglo-Saxon, (continued.)
Greek Harmony of the Gospels, Robinson's.
Greek Testament, Romans.
English, Shakespeare.
Fowler's English Language.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
History.
Mineralogy.
Geology.
Plato.
Greek Literature.
Anatomy and Physiology.
Confession of Faith.
Rhetoric.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Moral Philosophy.
Evidences of Christianity.
Chemistry.
Latin Literature.
Juvenal and Persius,
Astronomy, (completed.)
Hebrew, Green's Grammar and Chrestomathy.
} Elective.
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Botany.
English Literature.
Latin and Greek Literature.
Architecture.
Comparative Philology.
History.
Hebrew, Green's Grammar, and Chrestomathy.
} Elective.
Themes, and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (commenced.)
French.
English, March's Method.
Chemistry.
English Composition.
Old Testament.
Coleman's Biblical Geography.
Lectures on Health.
Geometrical Drawing.

SECOND TERM.

Geometry, Loomis's, (commenced.)
French.
German.
Chemistry.
English Composition.
Old Testament.
Coleman's Biblical Geography.
Geometrical Drawing.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Modern Languages.
Chemistry.
English Composition.
Geometrical Drawing.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Loomis's.
French.
German.
Mineralogy.
Chemistry, (optional.)
Study of Words, Trench.
Rhetoric.
Acts of the Apostles.
English, Bunyan.
Declamations and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Mensuration, Loomis's.
German.
English, Spenser.
Acts of the Apostles.
Chemistry, (optional.)
Botany.
Geometrical and Topographical Drawing.
Declamations and Themes.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Modern Languages.
English, Chaucer.
Archæology of Biblical Literature.
Acts of the Apostles.
Botany. Drawing of Plants.
Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
French.
English, Daniel Webster.
Chemistry.
Linear Perspective.
} Elective.

Zoölogy.
New Testament Epistles.
Geometrical and Topographical Drawing.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Zoölogy.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Descriptive Geometry, (optional.)

Constitution of the United States.
Political Philosophy.
New Testament Epistles.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
Spherical Trigonometry.
Mineralogy.
Anglo-Saxon, (continued.)
English, Shakespeare.

Modern Languages.
Machine Drafting.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
History.
Geology.
Modern Languages.

Modern Literature.
Anatomy and Physiology.
Confession of Faith.
Rhetoric.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Moral Philosophy.
Evidences of Christianity.

Chemistry, (optional.)
Modern Languages.
Astronomy, (completed.)
Physical Geography.
} Elective.
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Natural History.
English Literature.
Philosophy of Mathematics.
Archæology of Literature.
} Elective.

Architecture.
Comparative Philology.
History.
Modern Languages.
} Elective.
Themes, and Extemporaneous Speaking.

TECHNICAL COURSES.

The first two years of the General Scientific Course are arranged as introductory to all of the Technical Courses. Those who have passed the final examinations of the Sophomore year, can therefore proceed either with the General Course, as above indicated, or with any one of the following Technical Courses, as they may elect. Passed Sophomores of the Classical Course may elect from the Technical Courses, but they must take Chemistry in the Junior year to make up that of former years. Notice of all elections of these Courses must be given to the DEAN of the Faculty before the end of the Sophomore year.

ENGINEERING COURSE.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Linear Perspective.
Geometrical and Topographical Drawing.
Zoölogy.
New Testament Epistles.
Geodesy.
French. } Elective.
English. } Elective.
Chemistry. } Elective.
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Descriptive Geometry,—Shades and Shadows; Plans of Framing and Stone Cutting.
Zoölogy.
Constitution of the United States.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations, Themes.

THIRD TERM.

Natural Philosophy, (completed.)
Drawing, Topographical and Hydrographical.
Maps, Profiles, and Sections of Bridges and Roads.
Mineralogy.
Spherical Trigonometry.
English, Shakespeare.
Anglo-Saxon.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Road Engineering—Surveys and Estimates.
Drawings, Plan, Profiles, and Sections of Bridges and Roads.
Prime Movers.
Mental Philosophy, (optional.)
Astronomy, (optional.)
Modern Languages, (optional.)
Geology.
Anatomy and Physiology.
Confession of Faith.
Themes and Speaking.

SECOND TERM.

Mining Engineering;—Dialling, Surveys, Construction.
Civil Engineering—Water Supply of Cities, Hydraulic Works.
Drawing,—Plans of Canals, Dams, Mines.
Prime Movers.
Modern Languages.
Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Geology.
Physical Geography.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Civil Engineering,—Reviews of Engineering Works.
Mining Engineering,—Plans for development of Mining Lands.
Reviews.
Drawing Plans of Engineering Works and Mining Works.
Philosophy of Mathematics.
Butler's Analogy, (optional.)
Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
History, (optional.)
Themes, Speaking.

Graduation Theses.

MINING AND METALLURGY.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Linear Perspective.
Geometrical and Topographical Drawing.
Zoölogy.
New Testament Epistles.
French. } Elective.
English. } Elective.
Chemistry. } Elective.
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Descriptive Geometry,—Shades and Shadows; Plans of Framing and Stone Cutting.
Zoölogy.
Constitution of the United States.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations, Themes.

THIRD TERM.

Natural Philosophy, (completed.)
Spherical Trigonometry.
Descriptive Geometry.
Physical Geography.
Geology and Lithology.
Qualitative Analysis.
Blow-Pipe Analysis.

English, Shakespeare.
Anglo-Saxon.
French.
German.
} Elective.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Exploitation of Mines.
Descriptive Geometry.
Special Course on Iron, (commenced.)
Modern Languages, (optional.)
Mental Philosophy, (optional.)

Astronomy, (optional.)
Geology.
Anatomy and Physiology.
Confession of Faith.
Themes, Speaking.

SECOND TERM.

Mining Engineering.
Special Course on Iron, (completed.)
Drawing,—Plans of Mines and Machines.
Furnaces, Machines, Tools.
Prime Movers.
Modern Languages.
Mental Philosophy, (optional.)

Political Economy.
Astronomy, (optional.)
Physical Geography.
Geology.
Evidences of Christianity.
Themes, Speaking.
Quantitative Analysis.

THIRD TERM.

Mining Engineering.
Course on Gold, Silver, &c.
Economic Geology and Palæontology.
Reviews of Mining Operations.
Drawing.
Philosophy of Mathematics.
Assaying.

Butler's Analogy, (optional.)
Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
Themes, Speaking.
Graduation Theses.

CHEMICAL COURSE.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Qualitative Analysis, (commenced.)
Zoölogy, (commenced.)
New Testament Epistles.

French.
English.
Drawing.
} Elective.
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)	German.	Elective.
Qualitative Analysis, (continued.)	English.	
Zoölogy, (completed.)	Anglo-Saxon.	
Constitution of the United States.	Descriptive Geometry.	
New Testament Epistles.	Declamations, Themes, and Extemporaneous Speaking.	

THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare.	Elective.
Qualitative Analysis.	Anglo-Saxon.	
Blow-Pipe Analysis.	French.	
Physical Geography.	German.	
Geology and Lithology.	Declamations, Themes, and Extemporaneous Speaking.	

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.	Mental Philosophy, (optional.)
Volumetric Analysis.	Astronomy, (optional.)
Geology.	Modern Languages.
Anatomy and Physiology.	Confession of Faith.
Course on Iron, (optional.)	Themes, Speaking.

SECOND TERM.

Organic Analysis.	Political Economy.
Technical Chemistry.	Astronomy, (optional.)
Mineral Analysis.	Physical Geography.
Course on Iron, (optional.)	Evidences of Christianity.
Geology.	Themes, Speaking.
Mental Philosophy, (optional.)	

THIRD TERM.

Technical Chemistry.	Natural History, (optional.)
Agricultural Chemistry.	English Literature, (optional.)
Assaying.	Modern Languages.
Reviews of Chemical works.	Comparative Philology, (optional.)
Philosophy of Mathematics, (optional.)	Themes, Speaking.
Butler's Analogy, (optional.)	

Graduation Theses.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

Graduates of Colleges or Schools of Science may enter either of the Working Sections without Examination.

Practical Engineers may join the Corps of Road Engineers, or Mining Engineers, without Examination.

Others wishing to join the Working Sections in Road Engineering and Mining Engineering, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the Section on Iron, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General Chemistry and Analytic Chemistry, Mineralogy and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the Working Course in Chemistry, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytic Chemistry.

I. ROAD ENGINEERING.

The Senior Class of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.
Bridges, Location.
Framing.
Building Materials.
Masonry.
Tunnels.
Track.
Depots.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by textbook study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the first collegiate term, Thursday, September 16th, 1869.

II. MINING ENGINEERING.

The Senior Class of the Engineering Course study and describe certain of the Mines near Easton. This work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankment.
Drainage.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved are required. Text-Book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 6th, 1870.

III. MINING GEOLOGY AND METALLURGY.

COURSE ON IRON.

Work in the Laboratory, Field, Furnace and Rolling Mills.

Chemical and Physical Properties of Iron, and its Alloys.
Examination of, and Exploration for the Commercial Ores.
Assays of Irons, Steel and Slags:—
Wet, Dry and Blow-pipe Analysis.
Theory and Practice of Fluxes in the Laboratory and Blast Furnace.
Theses and Reports on Ores.
Direct and Indirect Extraction of Iron.
Historic and Comparative Metallurgy.
Blast Furnace, Puddling and other Furnaces.
Working Plans and Estimates.
Blast Engines—Theory and Management, Rolling Trains, &c.
Hot Blasts.
Drafts—Plans and Reports.
Manufacture of Steel.
Special Analysis and Work.

This Course is accompanied by text-book study and lectures, with the view of attaining a scientific mastery of the processes. Special attention is given to the Geology of Iron, with its Economic Metallurgy, to Fuels, Engines, Engineering Difficulties, Furnace Difficulties, and sources of error and loss. It occupies two college terms, beginning this year on Thursday, September 16th, 1869, and continuing until March 22d, 1870. It is followed by a Course on Gold, Silver, and other metals.

IV. CHEMISTRY.

Rooms in Jenks Chemical Hall are fitted up with experiment desks and other preparations for the Laboratory work of Students. The Common Course is—

General Chemistry.
Qualitative Analysis.
Quantitative Analysis.
Volumetric Analysis.
Organic Analysis.
Mineral Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 16th, 1869, and on Thursday, January 6th, 1870.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor of that Department, and have the use of the Laboratories, Apparatus, Collections, Library, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

SUMMARY OF EXERCISES OF PRACTICE.

ASTRONOMY.	Use of Instruments. Working of Observatory.
BOTANY.	Field Excursions; preparation of herbarium; original description and drawing of plants, etc.
CHEMISTRY.	Manipulations in the Laboratory throughout the course.
DRAWING.	Throughout the course.
ENGINEERING.	Visits to works, and reports on them, giving plans, etc.; construction of models. Field work, office work, see pp. 26, 27.
GEOLOGY.	Field excursions.
MINERALOGY.	Field excursions; manipulations of minerals, rocks, and metallurgical specimens; with the use of the blow-pipe.
MINING.	In the advanced course of Mining and Chemistry, application will be made in behalf of some of the best students to work during vacation in particular mines or manufactories.
ORATORY.	Declamations in class every week. A public exercise every Thursday morning in Chapel, at which all the students are present, and the classes speak by divisions. Seniors deliver original compositions.
SURVEYS.	Levelling; calculation of excavations; surface, and underground surveys; visits to mines and metallurgical works.
THEMES.	Original compositions upon assigned subjects.
ZOÖLOGY.	Taxidermy; Drawing.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In this year also, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In the Senior year, are studied the Old Testament, in the original Hebrew, (an elective study), the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to, as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy, and *Alexander's Moral Science* are used as text-books during the first and the second term of Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class-discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of Classic authors is accompanied with daily lessons in Grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology, (commenced.)
	Third Term.	Etymology of Verbs. Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (commenced.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Demosthenes, Tacitus, Cicero, and Plato, in these relations.

Harkness' Grammar and Andrews' Lexicon are used for Latin, Hadley's Grammar and Liddell and Scott's Lexicon for Greek. But Crosby's Grammar will be resumed for class drill with the next Freshman Class. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author and his life and times are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary are used in this department.

ANGLO-SAXON, GERMAN, and FRENCH, are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other, and language in general.

ANGLO-SAXON, ENGLISH, GERMAN, and FRENCH, are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

The Fowler Prize.—An annual prize of thirty dollars was founded in 1862 by Rev. William C. Fowler, LL D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1867 were examined on the English translations of the Bible. Equal prizes were awarded to J. M. Pfouts and R. H. Smith.

The class of 1868 were examined on Charles Dickens,—The Cricket on the Hearth. The prize was awarded to Herbert L. Baker.

The class of 1869 were examined on Bacon's Essays. The prize was awarded to George E. Jones.

RHETORIC.

Besides the study of text-books, weekly written essays are required, and declamations are had every Saturday in class, and every Thursday before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

BOTANY, ZOOLOGY, GEOLOGY.

SOPHOMORE YEAR,	*First Term,*	Mineralogy.
	Second Term,	Botany, (commenced.)
	Third Term,	Botany, (continued.)
JUNIOR YEAR,	*First and Second Terms,*	Zoölogy.
	Third Term,	Mineralogy.
SENIOR YEAR,	*First Term,*	Mineralogy, Geology.
	Third Term,	Botany.

The exercises of the Freshman, Sophomore, and Junior Years, belong to the Scientific Course, those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science, —field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, blow-pipe, and other means of refined observation. The collections in Botany are most ample. During the past year there has been added to the College Herbarium, as a gift from Professor Porter, the whole of his extensive collection, the fruits of more than twenty years labor on the part of the Professor and his assistants. The special value of this collection is its Flora of Pennsylvania, which is believed to be the most complete in existenee. In GEOLOGY, beside the text book study, Prof. Hitchcock delivers a course of lectures, for which he has at his command, besides the Cabinets of the College, the unsurpassed apparatus for illustration prepared for the lectures of the late President Edward Hitchcock, as well as his own more recent preparations and collections made in Europe, and as State Geologist of New Hampshire, Vermont, and Maine.

In the *Technical Courses* further instruction is given in Mineralogy and Geology in their relations to the arts. These studies may also be pursued in a POST-GRADUATE course.

MATHEMATICS, PHYSICS, AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole course. The subjects studied are as follows:

FRESHMAN YEAR,	*First Term,*	Algebra, (commenced.)
	Second Term,	Geometry, (commenced.)
	Third Term,	Algebra and Geometry, (completed.)
SOPHOMORE YEAR,	*First Term,*	Plane Trigonometry and Mensuration.
	Second Term,	Conic Sections, and Spherical Trigonometry.
	Third Term,	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR,	*First Term,*	Natural Philosophy, (commenced.)
	Second Term,	Natural Philosophy, (continued.)
	Third Term,	Natural Philosophy, (completed.)
SENIOR YEAR,	*First Term,*	Astronomy, (commenced.)
	Second Term,	Astronomy, (completed.)

Students in the Scientific Course study also Linear Perspective, Shades and Shadows, Drawing, in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

Text-books are used as mentioned on pages 18, 19, but it is made the main effort to teach the *Subjects.* In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field work of every kind. In Astronomy they are taught the working of the Observatory.

Prizes.—Two prizes have been founded in this department. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. It was awarded in 1868 to William H. Filson. In 1869 it was not awarded, there being no successful competition. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1868 to Walter Q. Scott, and in 1869 to Joseph J. Hardy.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. Students are invited to pursue Analytical Chemistry through the rest of the course. Part of the Jenks Hall is fitted up with experiment desks and other apparatus, so that each student may have every aid known to modern educators in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course see pages 27 and 28.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term,*	History of Rome.
	Second Term,	History of Rome.
JUNIOR YEAR.	*First Term,*	History of Greece.
	Second Term,	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term,*	History. (Lectures.)
	Second Term,	Political Economy.
	Third Term,	History. (Lectures.)

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the Conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a Course of Lectures in the Senior year.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR,	*First Term,*	Lectures on Health.
JUNIOR YEAR,	*First Term,*	General Principles of Physiology.
SENIOR YEAR,	*First Term,*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach

them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. The physical training is to be part of the regular College course, and to be under the immediate supervision of a Professor of Physical Culture. This chair is, however, vacant.

DEGREES.

The First Degree.—In addition to the usual degree of BACHELOR OF ARTS conferred upon the graduates of the Classical department, those students in the Scientific department who have completed the full course of four years, and passed a satisfactory final examination, and who have submitted to the Board of Examiners an approved Thesis upon a subject embraced in one of the Technical Courses, will be admitted to the degree of BACHELOR OF PHILOSOPHY.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of BACHELOR OF SCIENCE.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has, during that time, sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years, engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before commencement. The fee, including diploma, is $6.

Certificates.—Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on Sabbath afternoon. On Sabbath morning, students attend services in one of the churches of the Borough. A daily social prayer-meeting has long been maintained by the students. Thursday evening there is divine service, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

EXPENSES, &c.

Tuition, (to those not on scholarships,) in the Classical or General Scientific Course, . .	$15 00 a term.
Tuition in the Technical Courses, Working Sections,	25.00
Fuel, at cost, (average,) . . .	5 00
Room rent, from $2 to $8, do. . . .	4.50
General expense, ...	5.00
For the use and increase of the Library, . .	1.00

The matriculation or admission fee is $3; the fee for diploma, &c., at graduation, or for a certificate, is $6. The matriculation fee and all fees for diplomas and certificates are appropriated to the Library fund.

The fees for students pursuing advanced studies in Chemistry, Mining Engineering, &c., may be learned on application to the President.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Application for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of Board in clubs the past term was from $2.46 to $4.15 per week. Board, including room, in private families, is from $5 to $6 per week.

Tuition, room-rent, general expense, and charge for Library, must be paid each term in advance; and no student is permitted to recite until the receipt of the Treasurer is obtained. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure; for which services he will charge a commission.

Societies.—There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well furnished Halls. Each Society has also a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address on Sabbath evening preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room alternate Monday evenings, and by its Committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

The READING ROOM is under the control of a Society for procuring and preserving standard periodicals and books of reference. Any student may become a member. Its hall is open daily (Sundays excepted) for general reading out of study hours.

Libraries.—The College Library is open Mondays and Thursdays, at 9 o'clock A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

Terms and Vacations.—The College year is divided into three terms. The Annual Commencement is on the Wednesday preceding the 4th day of July, and the first term of the next College year begins nine weeks after, and continues sixteen weeks. A vacation follows, after which the second term begins on Thursday succeeding January 2d, and continues eleven weeks. The last term begins on Thursday, twelve weeks preceding Commencement. For the Calendar, see page 2.

Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

A record is kept of the punctuality, diligence, scholarship, and general behavior of each student; a report of which is sent to the parent or guardian at the close of each term.

All the classes are examined at the close of each term.

PRINTED BY ALFRED MARTIEN, PHILADELPHIA.

CATALOGUE

OF THE

Officers and Students

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1870—1871,

WITH THE COURSES OF STUDY.

SECOND TERM.

EASTON, PA.
1871.

COLLEGE CALENDAR.

1870.

September 1, Thursday. First term commenced.
December 21, Wednesday. First term ended.

VACATION OF TWO WEEKS.

1871.

January 5, Thursday. Second term commences.
March 22, Wednesday. Second term ends.

VACATION OF TWO WEEKS.

April 6, Thursday. Third term commences.
June 5—7. Final examination of the Senior Class.
June 15—19. Examination of the lower classes.
June 18, Sunday, A. M. Baccalaureate Sermon.
June 18, Sunday, P. M. Sermon before the Brainerd Missionary Society.
June 19, Monday. Senior Class Day and Concert.
June 20, Tuesday, A. M. Addresses from the Committee of Synod.
June 20, Tuesday, A. M. Re-union meetings of the Literary Societies.
June 20, Tuesday, P. M. Meeting of the Alumni Association.
June 20, Tuesday Evening. Oration before the Literary Societies.
June 21, Wednesday. Commencement exercises.

VACATION OF TEN WEEKS.

August 30, Wednesday. Examination for admission.
August 31, Thursday. First term commences.
December 20, Wednesday. First term ends.

VACATION OF TWO WEEKS.

1872.

January 4, Thursday. Second term commences.
March 20, Wednesday. Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

Hon. JAMES POLLOCK, LL.D., President,	Philadelphia.
Rev. S. M. ANDREWS, D. D., Secretary,	Doylestown.
Rev. SEPTIMUS TUSTIN, D. D.,	Washington City.
Rev. DAVID J. WALLER,	Bloomsburg.
Rev. ROBERT HAMILL, D. D.,	Boalsburg.
WILLIAM C. LAWSON,	Milton.
JAMES McKEEN,	Easton.
MATTHEW HALE JONES,	"
McEVERS FORMAN,	"
Rev. SAMUEL F. COLT,	Wysauking.
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Hon. JAMES ROSS SNOWDEN,	Philadelphia.
Rev. MILO J. HICKOK, D. D.,	Scranton.
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ALFRED MARTIEN,	Philadelphia.
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Hon. JAMES MORRISON HARRIS,	Baltimore, Md.
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MORRIS PATTERSON,	Philadelphia.
JOHN CURWEN, M. D.,	Harrisburg.
WILLIAM ADAMSON,	Philadelphia.

TREASURER,

Prof. JAMES H. COFFIN, Easton, Pa.

MEMBERS OF THE FACULTY.

Rev. WILLIAM C. CATTELL, D. D., President,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

TRAILL GREEN, M. D., LL.D.,
ADAMSON PROFESSOR OF GENERAL AND APPLIED CHEMISTRY.

JAMES HENRY COFFIN, LL.D.,
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Rev. JOHN LEAMAN, A. M., M. D.,
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

Rev. JAMES REED ECKARD, D. D.,
PROFESSOR OF HISTORY AND ARCHÆOLOGY OF LITERATURE.

Rev. LYMAN COLEMAN, D. D.,
PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

Rev. THOMAS C. PORTER, D. D.,
PROFESSOR OF BOTANY AND ZOOLOGY.
(Jessie Chamberlain Professorship of Botany.)

AUGUSTUS ALEXIS BLOOMBERGH, A. M.,
PROFESSOR OF MODERN LANGUAGES.

HENRY FRANCIS WALLING, C. E.,
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

R. B. YOUNGMAN, A. M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREDERICK PRIME, JR., A. M.,
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LECTURER ON GEOLOGY.

ROSSITER W. RAYMOND, PH. D.,
LECTURER ON MINING GEOLOGY.

SELDEN JENNINGS COFFIN, A. M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

JAMES W. MOORE, A. M., M. D.,
ADJUNCT PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

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LECTURER IN THE DEPARTMENT OF MINING.

JUSTUS M. SILLIMAN, M. E.,
ADJUNCT PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

THEODORE F. TILLINGHAST, C. E.,
ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

CHARLES McINTIRE, B. S.,
ASSISTANT IN CHEMISTRY.

JOHN BOYD GRIER, A. M.,
TUTOR IN MODERN LANGUAGES.

WALTER QUINCY SCOTT, A. B.
TUTOR IN GREEK AND LATIN.

JOSEPH JOHNSON HARDY, A. B.,
TUTOR IN MATHEMATICS.

DAVID JEWETT WALLER, JR., A. B.,
TUTOR IN GREEK AND LATIN.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1871.

John W. Garrett, Esq.	Baltimore. Md.
Hon. Robert McKnight,	Pittsburg.
Thomas Dickson,	Scranton.
A. A. Douglas,	Mauch Chunk.

Term Expires 1872.

Ashbel Welch,	Lambertville, N. J.
Selden T. Scranton.	Oxford, N. J.
John Leisenring,	Mauch Chunk.
Henry K. Smith,	Chestnut Hill.

Term Expires 1873.

H. J. Lombaert,	Philadelphia.
Strickland Kneass,	Philadelphia.
P. W. Shaefer,	Pottsville.
Frank Carter,	Mahanoy City.

COMMITTEE OF THE SYNOD.

Ministers.	*Elders.*
D. A. Cunningham,	Alexander Whilldin,
Frank L. Robbins,	Charles Macalester,
Cornelius Earle,	A. T. McClintock.
Edward P. Heberton,	

COMMITTEE OF THE ALUMNI.

Rev. Wm. Alfred Jenks, A. M., Class of 1855, President of Alumni Association, Bridesburg, Pa.

Hon. Alexander Ramsay, A. M., Class of 1838, Washington, D. C.

J. Morgan Rawlins, A. M., Class of 1855, Parkesburg, Pa.

Joseph Barrett, A. M., Class of 1861, Bedford, N. Y.

Edward P. Conkling, Class of 1867, Flemington, N. J.

STUDENTS.

REFERENCES.

East College, E.—West College, W.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powel Hall, P.—Refectory, R.—Partial Course, †.—Special Course, ‡.

RESIDENT GRADUATES.

NAME.	GRADUATION.	SPECIAL STUDY.
Addison Storrs Lewis, B. S.,	Miami University, 1869.	Engineering.
	Clifton, Ohio.	68 Bushkill Street.
Alexander Hamilton Sherrerd,	Lafayette, 1870.	Chemistry.
	Belvidere, N. J.	7 Northampton Street.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
John Stockton Axtell	*Sulphur Springs, Ohio,*	3 W.
Laird Howard Barber,	*Mifflinburg,*	13 M.
Matthew Henry Bradley,	*Mercersburg,*	58 E.
Edward Bryan,	*Carbondale,*	20 B.
Alexander Bryden,	*Pittston,*	4 W.
Norris Hunter Cone,	*Baltimore, Md.*	36 E.
John Cowan,	*Sadsburyville,*	9 N.
James Camp Crawford,	*Herrick,*	34 E.
John Martin Crawford,	*Herrick,*	12 E.
Benjamin Douglass, Jr.,	*New York City,*	15 E.
Francis Woolworth Edgar,	*Easton,*	22 E.
Thomas McKeen Farquhar,	*Easton,*	1 P.
William Shouse Fulton,	*Merrittstown,*	60 E.
Horace Pellman Glover,	*Hartleton,*	11 N.
Fisher Gutelius,	*Mifflinbury,*	2 P.
Jonathan Moore Harris,	*Phillipsburg, N. J.*	12 P.
Olin Frisbie Harvey,	*Wilkes Barre,*	23 E.
Oscar Jewell Harvey,	*Wilkes Barre,*	23 E.
Robert McCheyne Hays,	*Chambersburg,*	58 E.
James Theodore Houston,	*Olivesburg, Ohio,*	3 W.
John Bryson Hudson,	*Williamsport,*	58 E.

SENIORS—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
William St. George Kent,	*Phillipsburg, N. J.*	22 E.
David Bennett King,	*Mt. Pleasant,*	2 N.
Bradley Wakeman Lewis,	*Spring Hill,*	33 E.
Abram Worman Long,	*Point Pleasant,*	62 Bushkill St.
James Alexander McKnight,	*Chambersburg,*	45 E.
George King McMurtrie,†	*Belvidere, N. J.*	8 M.
William McMurtrie,	*Belvidere, N. J.*	8 M.
John Meigs,	*Pottstown,*	8 M.
Franklin Theodore Oldt,	*New Berlin,*	13 E.
William Baxter Owen,	*Wysox,*	4 N.
Joseph Rogers Paull,	*Connellsville,*	60 E.
John Findlater Pollock,	*Fall Brook,*	43 E.
John Scollay,	*Westminster, Mass.*	21 E.
Thomas Love Springer,	*Loveville, Del.*	35 E.
Willard Springer,	*Loveville, Del.*	35 E.
Charles Arthur Stillwell,‡	*Adams' Mills, Ohio,*	16 Northampton St.
Aaron Swartz,	*Kulpsville,*	15 B.
John Elfreth Watkins,	*Richmond, Va.*	7 M.
William Wiely, Jr.,	*Downingtown,*	10 N.
James William Wilson,†	*Easton,*	7 B.
John Marshall Young,‡	*Easton,*	34 E.

SENIORS, ... 42

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Chester Dewey Allis,‡	*Rochester, N. Y.*	9 P.
Jacob Boyd Andrews,	*Agricultural College,*	11 M.
Wallace Shaw Ayres,	*Allamuchy, N. J.*	7 P.
William Davidson Babcock,	*Evansville, Ind.*	12 P.
Horace Brown Bannard,‡	*Salem, N. J.*	Dr. Eckard.
James Gray Bolton,	*Philadelphia,*	8 P.
William Campbell Brobston,	*Bridgeton, N. J.*	1 W.
David Henshey Campbell,	*Antistown,*	9 M.
Benjamin Chambers, Jr.‡	*Chambersburg,*	8 W.
Frank Diffenderffer,	*New Holland,*	11 N.
Edmund Southard Doty,	*Mifflintown,*	19 N.
William Angus Douglass,	*New York City,*	15 E.
Thomas Fassitt,	*Philadelphia,*	48 E.
John Fox,	*Easton,*	9 P.
William Pendleton Gaines,	*Calvert, Texas,*	C. P. Miller.
Jacob S. Gantz,	*Hagerstown, Md.*	56 E.
James Isaac Good,	*Reading,*	7 P.
Elisha Lewis Hillis,	*Herrick,*	33 E.
Samuel Henry Houser,	*Mauch Chunk,*	7 M.
John Bryden Law,	*Pittston,*	49 E.
William Stokes Long,	*Point Pleasant,*	62 Bushkill St.
James Allen Menaul,	*Tyrone, Ireland,*	17 B.
Arthur Julius Pilgrim,	*Columbia, Texas,*	1 B.
William Baird Reed,	*Philadelphia,*	59 E.
James Hall Rittenhouse,	*Georgetown, D. C.*	12 M.
Charles Albert Sandt,	*Easton,*	187 Northampton St.
John Eakin Shull,	*Martin's Creek,*	14 P.
Harry Augustus Smith,	*Chestnut Hill, Phila.*	13 P.
Howard Foster Smith,	*Lyons, Iowa,*	11 M.
Sylvester Comstock Smith,	*Essex, Conn.*	21 E.
William Ernest Smith,	*Hammonton, N. J.*	49 E.
Robert Patterson Snowden,	*Philadelphia,*	14 M.
Jefferson Snyder,	*Stonersville,*	14 B.
William Semple Sweeny,	*Easton,*	32 N. 2d St.
Clarence Gilbert Voris,	*Danville,*	24 N.
Walter Lowrie Ziegler,‡	*Mount Joy,*	59 E.

JUNIORS, ... 36

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
William Clarke Alexander,	*Lewistown*,	47 E.
William Caldwell Anderson,	*Youngstown*,	12 N.
Eleazer Jacob Angle,	*Herrick*,	14 E.
Lloyd Paxton Appelman,	*Bloomsburg*,	31 E.
Edwin Atlee Barber,	*West Chester*,	13 M.
Stephen Goodyear Barnes,	*Perth Amboy, N. J.*	.....
Edward Newell Barrett,	*Bedford, N. Y.*	10 E.
Emery Shepperd Barrick,	*Croton, N. J.*	50 E.
Enoch Benson,	*Bridgeton, N. J.*	18 B.
James Calvin Bergstresser,	*Mount Carmel*,	57 E.
George Newton Best,	*Pittstown, N. J.*	10 P.
Franklin Pierce Billmeyer,	*Bloomsburg*,	31 E.
Daniel Webster Bruckart,	*Silver Spring*,	10 M.
Herbert Thomas Buckley,	*Easton*,	9 P.
Charles Edward Burns,	*Duncannon*,	18 B.
John Andrew Canan,	*El Dorado*,	9 M.
Charles Alfred Carson,	*New Salem*,	16 Northampton St.
Elijah Rittenhouse Case,	*Frenchtown, N. J.*	38 E.
William Carpenter Cline,	*Harmony, N. J.*	17 B.
Milton Lewis Cook,	*Merryall*,	43 E.
Albert Hatch Davidson,	*Augusta, Georgia*,	30 E.
John George Diefenderfer,	*Allentown*,	18 B.
Frank Drake,	*Easton*,	34 E.
Theodore Cowan English,	*Liberty Corner, N. J.*	30 E.
John Frace,	*Hecktown*,	57 E.
Henry Cooledge Frost,	*Cleveland, Ohio*,	6 M.
Thomas Crawford Galbreath,	*Pylesville, Md.*	2 B.
John White Geary,	*Albany, Oregon*,	16 Northampton St.
John Alexander Gregory,	*Alexandria*,	.....
Aaron Kerr Hannen,	*Philadelphia*,	6 M.
George Lane Huggins,	*New York City*,	48 E.
William Henry Hulick,	*Easton*,	52 E.
Wesley Middleton Hyde,	*Baltimore, Md.*	16 B.
Hathaway Kemper,	*Dayton, Ohio*,	2 R.
Daniel McKinley Kennedy,	*Chambersburg*,	27 E.

SOPHOMORES—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
Edward Mathias Killough,	*Harrisburg,*	19 E.
Cyrus Knecht,	*Easton,*	25 So. 6th St.
George Mortimer Lewis,	*Wyalusing,*	12 E.
William Raby Little,	*West Chester,*	19 E.
John Howard Lott,	*Easton,*	51 E.
Edward Fendall Lummis,	*Cedarville, N. J.*	L. P.
Thomas McNinch,	*Potts Grove,*	6 W.
Ambrose Kirtland Michler,	*Washington, D. C.*	12 M.
Nathan Grier Moore,	*Pottstown,*	14 E.
John Albert Mouk,	*Columbia,*	24 E.
Samuel Clarence Plank,	*Allen,*	12 M.
Alexander Ross Read,	*Clearfield,*	9 M.
William Blair Reed,	*Chambersburg,*	27 E.
Henry Rumer,	*Wilmington, Del.*	16 B.
John Milton St. Clair,	*Indiana,*	45 E.
Isaac Peter Schaeffer,	*Fleetwood,*	20 E.
William Henry Schuyler,	*Bloomsburg,*	31 E.
Walter Moffat Shanks,	*New York City,*	9 W.
Joseph Rosenbery Shimer,	*Martin's Creek,*	14 P.
Albert Peter Silver,	*Glenville, Md.*	47 E.
Augustus Thorndike Smith,*	*Marshall, Texas,*	10 M.
Henry De Witt Smith,	*Marshall, Texas,*	10 M.
Lewis Frank Sprenger,	*Kutztown,*	20 E.
Herman Alricks Stees,	*Mifflinburg,*	13 B.
Wilson Cunningham Sterling,	*New Derry,*	7 W.
Jacob Steinman Stewart,	*Alexandria,*	37 E.
William Jones Stewart, Jr.,	*Duncannon,*	38 E.
Rhamanthus Menville Stocker,	*Hamlinton,*	5 W.
Henry McDanold Struble,	*Pleasant Valley, N. J.*	8 B.
Nathaniel Taylor,	*Mooresburg,*	6 W.
Levi Ellmaker Waller,	*Bloomsburg,*	32 E.
Joseph Gilliard Williamson, Jr.,	*Sidney, N. J.*	10 P.

SOPHOMORES, ... 67

* Died November 20th, 1870.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	*Prospectville,*	10 P.
George Bonbright Anderson,	*Youngstown,*	23 N.
John Baer Bausman,	*Lancaster,*	C. P. Miller.
William Hanna Bayless,	*Glenville, Md.*	34 E.
Charles Julius Bechdolt,	*Easton,*	10 R.
Erastus Starnar Bloom,	*Bloomsbury, N. J.*	13 E.
William Crawford Bovard,	*Brady,*	7 W.
Cicero Brodhead,†	*Delaware Water Gap,*	22 N.
Levi Welts Case,	*Frenchtown, N. J.*	8 R.
Nai Chu,	*Bangkok, Siam,*	1 R.
Aaron James Clarke,	*Brooklyn, N. Y.*	13 P.
Robert Lorenzo Clark,	*Chestnut Level,*	16 Northampton St.
Harry Cook,	*Philadelphia,*	31 S. 5th St.
Enoch Israel Davies,	*Phillipsburg, N. J.*	2 B.
Frank Nimocks Day,	*Philadelphia,*	C. P. Miller.
William Deats,	*Lower Mt. Bethel,*	2 E.
Charles Richardson Dilworth,	*Pittsburg,*	51 E.
Lawrence Dilworth,	*Pittsburg,*	51 E.
William Wilkin Dorris,	*Huntingdon,*	56 E.
Latimer Banks Doty,	*Mifflintown,*	19 N.
Addison Stewart Elliott,	*Callensburg,*	C. P. Miller.
Pennell Coombe Evans,	*Easton,*	2 W.
Francis George Fisher,	*Standing Stone,*	12 E.
Angus Lewis Fullerton,	*Chillicothe, O.*	Dr. Eckard.
Robert Henry Fulton,	*Latrobe,*	60 E.
James Buchanan Gilfillan,	*Cochranville,*	C. P. Miller.
Adam Gradwohl,	*Easton,*	J. Gradwohl.
Dudley Wells Gregg,	*Susquehanna Depot,*	6 R.
Robert Henderson Hamilton,	*Altoona,*	2 E.
Jacob Butz Heller, Jr.	*Easton,*	28 E.
Samuel Boyd Hepburn,	*Campbell Hall, N. Y.*	Dr. Eckard.
John Herron,	*Jewett, O.*	2 B.
Daniel Graffius Heylmun,	*Bloomfield, N. J.*	C. Harrison.
Edward Hickey,	*Scranton,*	5 R.

FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
Clinton Hilliard,	*Easton*,	69 N. 4th St.
George Moyer Holt,	*South Easton*,	Canal St.
Hampton Houseman,†	*Rostraver*,	L. P.
Frederic Emanuel Keim,	*Easton*,	28 E.
Clay Kemble,	*Philadelphia*,	6 R.
Frank Lambert,	*New York City*,	9 R.
Clarence Fruit Leidy,	*Danville*,	2 W.
Robert McConaughy,	*Mount Pleasant*,	2 N.
Frank Cummins McCown,	*Philadelphia*,	9 R.
Harlan George Mendenhall,†	*Coatesville*,	13 M.
William McKeen Miller,	*Port Jervis, N. Y.*	11 E.
Charles Howard Milligan,	*Greenville, Tenn.*,	17 Northampton St.
David Moore,	*Alexandria*,	11 E.
John Wolford Mumper,	*Bethlehem*,	6 W.
David Williamson Nevin,	*Shippensburg*,	7 R.
Joseph Pierce Nevin,	*Shippensburg*,	7 R.
John Sanford Noble,	*Easton*,	So. 6th St.
Nathaniel Marion Orr,	*Wilkes Barre*,	33 E.
Israel Platt Pardee,	*Hazleton*,	C. P. Miller.
Sidney Perkins,	*Cleveland, O.*	6 M.
Sylvanus Rockafellow Queen,	*Mount Pleasant, N. J.*	4 R.
Frank Bowman Reed,	*Clearfield*,	9 M.
George Benjamin Reynolds,	*Plymouth*,	56 N. 3d St.
John Butler Reynolds,	*Kingston*,	55 N. 3d St.
Thomas McKeen Riegel,	*Easton*,	7 B.
Samuel Miller Riley,	*Montrose*,	10 M.
Andrew Douglas Salkeld,	*Mauch Chunk*,	1 M.
Thomas Fatzinger Salkeld,	*Mauch Chunk*,	1 M.
Christian Weaver Sandt,	*Easton*,	9 E.
David Ephraim Sayre,	*Monticello, Mo.*	J. H. Buell.
Emilius Kitchell Sayre,	*Monticello, Mo.*	J. H. Buell.
David Schenck,	*Trenton, N. J.*	3 E.
Michael Jonas Shalter,	*Tuckerton*,	10 E.
Clayton Kerper Smith,	*Chestnut Hill*,	13 P.
Arthur Snyder,	*Easton*,	Bushkill St.
Samuel Sprecher,	*Lancaster*,	C. P. Miller.

FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
George Washington Stewart,	*Duncannon,*	38 E.
Samuel Luther Stiver,	*Potter's Mills,*	58 E.
John Franklin Stonecipher,	*Fayette,*	Mrs. Field.
James John Sullivan,	*Philadelphia,*	6 R.
John Anderson Sutton,	*Indiana,*	59 E.
John Walker Sutton, Jr.,	*Indiana,*	46 E.
George Albert Thompson,	*Warren, Md.*	C. Harrison.
George Robert Van Reed,	*Reading,*	1 E.
Samuel Robert Warrender,	*Stapleton, N. Y.*	9 E.
Ethan Allen Weaver,	*Easton,*	1 N.
Thomas Wells,	*Scranton,*	8 P.
William Weston, Jr.,	*New York City,*	9 P.
William Hammill Wigton,	*Philadelphia,*	9 R.
John Robert Williams,	*Frenchtown, N. J.*	5 R.
John Clayton Wright,	*Mifflintown,*	C. P. Miller.
Nomer Junkin Wright,	*Milford, N. J.*	4 R.

FRESHMEN, ... 86

SUMMARY.

Resident Graduates,		2
Undergraduates,	Seniors,	42
	Juniors,	36
	Sophomores,	67
	Freshmen,	86
		233

Massachusetts,	1	Virginia,	1
Connecticut,	1	Tennessee,	1
New York,	12	Georgia,	1
New Jersey,	27	Texas,	4
Pennsylvania,	158	Oregon,	1
District of Columbia,	2	Indiana,	1
Delaware,	3	Missouri,	2
Maryland,	7	Iowa,	1
Ohio,	8	Ireland,	1
		Siam,	1

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized in 1866, to carry into effect the conditions of a donation from A. PARDEE, ESQ., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

The Board have thus been enabled to add to the Faculty of the College eminent instructors in the various Departments of Physical Science, and to provide the buildings and apparatus necessary for thorough Courses of Scientific Instruction. The Trustees have accordingly established the PARDEE SCIENTIFIC DEPARTMENT IN LAFAYETTE COLLEGE, including,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of college life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that

our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old college studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that as far as possible the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, may be so adapted to the students of the new course as to give in a good degree the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged in which students may, if they choose, devote themselves during the Junior and Senior years to studies essentially practical and technical, viz.,

I. ENGINEERING, Civil and Mechanical. This Course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges; the

trigonometrical and topographical survey of States, Counties, etc., the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. Mining Engineering and Metallurgy. This Course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. Chemistry. This Course includes text-book study, lectures and laboratory practice, every facility for which is found in the Laboratories of Jenks Chemical Hall. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of Trade and Commerce; of Modern Languages and Philology; of Natural History; of Architecture; and of the History and Institutions of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavoured to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Department, special lectures will be given upon the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Arnold's Latin Prose Composition (xii. chapters); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 ⁋⁋); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—1. *Engineering, Civil and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the Metric System; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the Working Sections, see pages 28 and 29.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Livy.	Algebra, Loomis's, (continued.)
Latin Composition.	Old Testament, in English.
Xenophon, Cyropædia.	Coleman's Biblical Geography.
Classical Geography.	Lectures on Health.
English Composition.	

SECOND TERM.

Livy.	Geometry, Loomis's, (continued.)
Latin Composition.	English Composition.
Herodotus.	Old Testament, in English.
Greek Antiquities.	Coleman's Biblical Geography.

THIRD TERM.

Horace.	Algebra, completed.
Roman Antiquities.	Solid Geometry.
Greek Testament—Mark.	New Testament, in English.
Greek Composition.	Coleman's Biblical Geography.
English Composition.	

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Horace.	Trigonometry, Plane and Spherical.
Xenophon, Memorabilia.	Mensuration, Loomis's.
Greek Composition.	Study of Words, Trench.
Greek Testament—Acts.	Rhetoric.
	Declamations and Themes.

SECOND TERM.

Cicero, De Oratore.	Archæology of Greek Literature and Art.
Homer, Iliad.	Conic Sections, Coffin's.
Greek Testament.	Declamations and Themes.

THIRD TERM.

Homer, Iliad.	Analytical Geometry.
Greek Testament—Acts.	Differential and Integral Calculus.
Archæology of Roman Literature and Art.	Navigation and Surveying, Loomis's.
French.	Declamations and Themes.

JUNIOR CLASS.

FIRST TERM.

Natural Philosophy, (commenced.)
Demosthenes, De Corona.
History of Greece.
Cicero, Tusculan Disputations.
German.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Tacitus, Germania and Agricola.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Greek Testament, Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
Spherical Trigonometry.
Chemistry.
Greek Tragedies.
Anglo-Saxon, (continued.)
English, Shakespeare.
Fowler's English Language.
Greek Testament, Romans.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
Botany.
Zoölogy.
Anatomy and Physiology.
Plato.
History.
Confession of Faith.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Rhetoric.
Moral Philosophy.
Evidences of Christianity.
English Literature.
Geology, (commenced.)
Mineralogy.
Juvenal and Perseus.
Astronomy, (completed.)
Hebrew, Green's Grammar and Chrestomathy.
} Elective.
Themes, and Extemporaneous Speaking.

THIRD TERM

Greek Harmony of the Gospels.
Butler's Analogy.
Latin and Greek Literature.
Comparative Philology.
Geology, (completed.)
Architecture.
History.
French.
German.
Hebrew, Green's Grammar, and Chrestomathy.
} Elective.
Themes, and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Stereotomy, Elementary Drawing.
French.
English, March's Method.
English Composition.
Chemistry.
Old Testament.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (commenced.)
Drawing, Plane Problems.
French.
German.
Chemistry.
English Composition.
Old Testament.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages.
Mineralogy.
English Composition.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English, from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French.
German.
Chemistry, (optional.)
Study of Words, Trench.
English, Bunyan.
Rhetoric.
Acts of the Apostles.
Declamations and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Geometrical and Topographical Drawing.
German.
Botany.
Zoölogy.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.
Declamations and Themes.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Navigation and Surveying, Loomis's.
Modern Languages.
English, Chaucer.
Archæology of Biblical Literature.
Acts of the Apostles.
Botany. Zoölogy.
Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
French.
English, Bacon.
Chemistry.
Descriptive Geometry.
} Elective.
Zoölogy.
Botany.
New Testament Epistles.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Shades and Shadows, (optional.)
Colored Topography, (optional.)
Zoölogy.
Botany.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
Spherical Trigonometry.
German.
Anglo-Saxon, (continued.)
Linear Perspective, (optional.)
English, Shakespeare.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
History.
Modern Languages.
Modern Literature.
Anatomy and Physiology.
Confession of Faith.
Themes, and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Rhetoric.
Moral Philosophy.
Evidences of Christianity.
Geology, Hitchcock's.
Mineralogy.
English Literature.
Modern Languages.
Astronomy, (completed.)
Physical Geography.
} Elective.
Themes, and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Geology, Hitchcock's.
Philosophy of Mathematics.
Archæology of Literature.
} Elective.
Architecture.
Comparative Philology.
History.
Modern Languages.
} Elective.
Themes, and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Trigonometry, Loomis's.
Stereotomy, Elementary Drawing.
Chemistry.
French.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Mensuration, Loomis's, (commenced.)
Surveying, Loomis's.
Problems in Division of Land.
Drawing, Plane Problems.
Chemistry
French.
German, (optional.)
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Surveying, field work.
Geometrical Drawing.
Mineralogy.
French.
German, (optional.)
Coleman's Biblical Geography.

Throughout the Year.—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Mensuration, (completed)
Surveying, field work.
Geometrical Drawing.
Chemistry, (optional.)
French.
German, (optional.)
Trench on Words.
Acts of the Apostles.

SECOND TERM.

Conic Sections.
Topographical Drawing.
Botany. Zoölogy.
Chemistry, (optional.)
French.
German, (optional.)
English, Spenser, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoölogy.
French.
German, (optional.)
English, Chaucer, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.
Descriptive Geometry, (General Orthographic Projections.)
Geodesy.
French.
Zoölogy.
Botany.
Mineralogy, (optional.)
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Map of Survey.
Theory and Adjustment of Instruments.
Calculation of Areas.
Zoölogy. Botany.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Natural Philosophy, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Hydrographical Surveying.
Map of Topographical Survey.
English, Shakespeare. } Optional.
Anglo-Saxon. }
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Higher Geodesy.
Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
General Theory of Machines.
Astronomy, (optional.)
Mental Philosophy, (optional.)
Modern Languages, (optional.)
Anatomy and Physiology.
Confession of Faith.
Themes and Speaking.

SECOND TERM.

Machinery and Motors.
Machine Drawing.
Stability of Structures.
Supply and Distribution of Wate .
Modern Languages.
Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Geology.
Physical Geography.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Designs for, and Reviews of Engineering Works.
The Steam Engine.
Stone Cutting.
Stability of Structures.
Philosophy of Mathematics.
Geology.
Butler's Analogy, (optional.)
Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
History, (optional.)
Themes, Speaking.
Graduation Theses.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that German and Chemistry are required, and part of the French is optional.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Qualitative Analysis.
Mineralogy.
Chain Surveying.
Compass Surveying.
Angular Surveying.
Zoölogy. Botany.
German. French. English. } Optional.
New Testament Epistles.
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Calculus, (continued.)
Theory and Adjusting of Instruments.
Colored Topography.
Maps of Surveys.
Qualitative Analysis.
Blow-piping.
Zoölogy.
Botany.
English, Anglo-Saxon, (optional.)
New Testament Epistles
Declamations, Themes.

THIRD TERM.

Natural Philosophy, (completed.)
Analytical and Applied Mechanics.
Topographical Surveying.
Map of Topographical Survey.
Qualitative Analysis.
Blow-Pipe Analysis.
English, Shakespeare. Anglo-Saxon. French. German. } Optional.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Volumetric Analysis.
Metallurgy.
Lithology.
Exploitation of Mines.
General Theory of Machines.
Mental Philosophy, (optional.)
Anatomy and Physiology.
Confession of Faith.
Themes, Speaking.

SECOND TERM.

Quantitative Analysis.
Assaying.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.
Mental Philosophy, (optional.)
Geology.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Mineral Analysis.
Metallurgy.
Mine Surveying.
Ore Deposits.
Economic Geology and Palaeontology.
The Steam Engine.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Natural History, (optional.)
Themes, Speaking.

Graduation Theses.

CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the GENERAL SCIENTIFIC COURSE. See page 21.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced)
Qualitative Analysis, (commenced.)
Zoölogy. Botany.
New Testament Epistles.
French. English. Drawing. } Elective.
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Qualitative Analysis, (continued.)
Blow-piping.
Zoölogy. Botany.
Constitution of the United States.
New Testament Epistles.
German. English. Anglo-Saxon. } Elective.
Declamations, Themes, and Extemporaneous Speaking.

THIRD TERM.

Natural Philosophy, (completed.)
Qualitative Analysis.
Blow-Pipe Analysis.
Physical Geography.
Lithology.

English, Shakespeare.
Anglo-Saxon.
French.
German.
} Elective.

Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Volumetric Analysis.
Anatomy and Physiology.
Course on Iron, (optional.)

Mental Philosophy, (optional.)
Astronomy, (optional.)
Modern Languages.
Confession of Faith.
Themes, Speaking.

SECOND TERM.

Organic Analysis.
Assaying.
Technical Chemistry.
Mineral Analysis.
Course on Iron, (optional.)
Geology.

Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Physical Geography.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Technical Chemistry.
Agricultural Chemistry.
Geology.
Reviews of Chemical Works.
Philosophy of Mathematics, (optional.)
Butler's Analogy, (optional.)

Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
Themes, Speaking.

Graduation Theses.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS, or MINING ENGINEERS, without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General Chemistry and Analytic Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytic Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by textbook study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the first collegiate term, Thursday, September 1st, 1870.

II. MINING ENGINEERING.

The SENIOR CLASS of the Engineering Course study and describe certain of the Mines near Easton. This work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankments.
Drainage.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 5th, 1871.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and Chemical Properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace, and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a Course on Lead, Silver, Gold, and other metals.

The Course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

Rooms in Jenks Chemical Hall are fitted up with experiment desks and other preparations for the Laboratory work of Students. The COMMON COURSE is—

General Chemistry.
Qualitative Analysis.
Quantitative Analysis.
Volumetric Analysis.
Organic Analysis.
Mineral Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 1st, 1870, and on Thursday, January 5th, 1871.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor of that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

SUMMARY OF EXERCISES OF PRACTICE.

ASTRONOMY.	Use of Instruments. Working of Observatory.
BOTANY.	Field Excursions; preparation of herbarium; original description and drawing of plants, etc.
CHEMISTRY.	Manipulations in the Laboratory throughout the course.
DRAWING.	Throughout the course.
ENGINEERING.	Visits to works, and reports on them, giving plans, etc.; construction of models. Field work, office work, see pp. 28, 29.
GEOLOGY.	Field excursions.
MINERALOGY.	Field excursions; manipulations of minerals, rocks, and metallurgical specimens; with the use of the blow-pipe.
MINING.	In the advanced course of Mining Engineering and Metallurgy, and of Chemistry, application will be made in behalf of some of the best students to work during vacation in particular mines or manufactories.
ORATORY.	Declamations in class every week. A public exercise every Thursday morning, at which all the students are present, and the classes speak by divisions. Seniors deliver original compositions.
SURVEYS.	Levelling; calculation of excavations; surface, and underground surveys; visits to mines and metallurgical works.
THEMES.	Original compositions upon assigned subjects.
Zoölogy.	Taxidermy; Drawing.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to, as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy, and *Alexander's Moral Science* are used as text-books during the first and second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class-discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of Classic authors is accompanied with daily lessons in Grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology, (commenced.)
	Third Term.	Etymology of Verbs. Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (commenced.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Demosthenes, Tacitus, Cicero, and Plato, in these relations.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek Crosby's Grammar for drill, Hadley's for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary are used in this department.

ANGLO-SAXON, GERMAN, and FRENCH, are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other, and language in general.

ANGLO-SAXON, ENGLISH, GERMAN, and FRENCH, are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862 by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1868 were examined on Charles Dickens,—The Cricket on the Hearth. The prize was awarded to Herbert L. Baker.

The class of 1869 were examined on Bacon's Essays. The prize was awarded to George E. Jones.

The class of 1870 were examined on Addison,—Selections from the Spectator. The prize was awarded to D. J. Waller, Jr.

RHETORIC.

Besides the study of text-books, weekly written essays are required, and declamations are had every Saturday in class, and every Thursday before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second Term.*	Botany. Zoölogy.
	Third Term.	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Botany.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore, and Junior Years, belong to the Scientific Course, those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science, —field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, blow-pipe, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium, as a gift from Professor Porter, the whole of his extensive collection, the fruits of more than twenty years labor on the part of the Professor and his assistants. The special value of this collection is its Flora of Pennsylvania, which is believed to be the most complete in existence. In GEOLOGY, beside the text-book study, Prof. Hitchcock delivers a course of lectures, for which he has at his command, besides the Cabinets of the College, the unsurpassed apparatus for illustration, prepared for the lectures of the late President Edward Hitchcock, as well as his own more recent preparations and collections made in Europe, and as State Geologist of New Hampshire, Vermont, and Maine.

In the *Technical Courses* further instruction is given in Mineralogy and Geology in their relations to the arts. These studies may also be pursued in a POST-GRADUATE course.

MATHEMATICS, PHYSICS, AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Natural Philosophy, (commenced.)
	Second Term.	Natural Philosophy, (continued.)
	Third Term.	Natural Philosophy, (completed.)
SENIOR YEAR.	*First Term.*	Astronomy, (commenced.)
	Second Term.	Astronomy (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing, in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses see pages 23—27.

Text-books are used as mentioned on pages 19, 20, but it is made the main effort to teach the *Subjects.* In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field work of every kind. In Astronomy they are taught the working of the Observatory.

PRIZES.—Two prizes have been founded in this department. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. It was awarded in 1868 to William H. Filson. In 1869 it was not awarded, there being no successful competion. In 1870 it was awarded to R. W. D. Bryan. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1868 to Walter Q. Scott, in 1869 to Joseph J. Hardy, in 1870 to A. Swartz.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. Students are invited to pursue Analytical Chemistry through the rest of the course. Part of the Jenks Hall is fitted up with experiment desks and other apparatus, so that each student may have every aid known to modern educators in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course see page 29.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History. (Lectures.)
	Second Term.	Political Economy.
	Third Term.	History. (Lectures)

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the Conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a Course of Lectures in the Senior year.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations.

Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. The physical training is a part of the regular College course, and is under the immediate supervision of the Professor of Physical Culture.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on Sabbath afternoon. On Sabbath morning students attend services in one of the churches of the Borough. A daily social prayer-meeting has long been maintained by the students. Thursday evening there is divine service, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred upon the graduates of the Classical department. Those students who have completed the General Scientific course of four years, and passed a satisfactory final examination, will be admitted to the degree of BACHELOR OF PHILOSOPHY.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of BACHELOR OF SCIENCE.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has, during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of

the College in any of the scientific departments, or who has elsewhere for three or more years, engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before commencement. The fee, including diploma, is $6.

Certificates.—Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

EXPENSES, &c.

Tuition, (to those not on scholarships,) in the Classical or General Scientific Course, . .	$15.00	a term.
Tuition in the Technical Courses, Working Sections,	25.00	"
Room-rent, from $2 to $8, (average,) . .	4.50	"
General expense, ...	5.00	"
Library and Reading Room, ...	2.00	"
Fuel, at cost, (average for the past year,) .	8.00	a year.

The matriculation or admission fee is $3; the fee for diploma, &c., at graduation, or for a certificate, is $6. The matriculation fee and all fees for diplomas and certificates are appropriated to the Library fund.

The fees for students pursuing advanced studies in Chemistry, Mining Engineering, &c., may be learned on application to the President.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Application for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of Board in clubs the past term was from $2.46 to $4.15 per

week. Board, including furnished room in private families, is from $5 to $6 per week. The rooms in the College buildings are unfurnished. Students find their own fuel, at an average cost of from six to ten dollars a year.

Tuition, room-rent, general expense, and charge for Library, must be paid each term in advance; and no student is permitted to recite until the receipt of the Treasurer is obtained. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed $275; students sometimes keep them less than $200; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure; for which services he will charge a commission.

Societies.—There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well-furnished Halls. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address on Sabbath evening preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room alternate Monday evenings, and by its Committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

READING ROOM.—The EASTONIAN HALL in the new wing of East College has been fitted up as a Reading Room, and will be supplied with the best newspapers and periodicals of America, England, France, and Germany. The dictionaries, cyclopædias, and other works of reference belonging to the Library have also been placed in this room. It will be opened to all members of College daily (Sundays excepted) for consultation during study hours morning and afternoon, and for general reading out of study hours.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

Libraries.—The College Library is open Thursday, Friday, and Saturday, at 9 o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

Terms and Vacations.—The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2.

All the classes are examined at the close of each term.

Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

A record is kept of the punctuality, diligence, scholarship, and general behavior of each student; a report of which is sent to the parent or guardian at the close of each term.

During the past year valuable donations have been made to the Scientific Collections of the College: from Mr. CHARLES MACALESTER of Philadelphia, mineralogical specimens; from Professor J. S. NEWBERRY, M.D., geological and metallurgical specimens; and from Rev. JOHN MENAUL, (class of 1862) Corisco Mission, a collection of shells from the coast of Africa. Valuable contributions have also been made to the general herbarium of the College by Professor JOHN TORREY, LL.D., of New York City, and Mr. THOMAS P. JAMES, of Cambridge, Mass. Some valuable models have been presented to the Engineering Department by Mr. STRICKLAND KNEASS, of Philadelphia.

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CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1872–1873.

WITH THE COURSES OF STUDY.

EASTON, PA.
1873.

COLLEGE CALENDAR.

1872.

September 5, Thursday.—First term began.
December 24, Tuesday.—First term ended.

VACATION OF TWO WEEKS.

1873.

January 9, Thursday.—Second term began.
January 30, Thursday.—Day of Prayer for Colleges.
February 22, Saturday.—Anniversary of the Washington Literary Society.
March 26, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 10, Thursday.—Third term begins.
June 16—18.—Final Examination of the Senior Class.
June 26—30.—Examination of the lower classes.
June 29, Sunday, A. M.—Baccalaureate Sermon.
June 29, Sunday, P. M.—Sermon before the Brainerd Missionary Society.
June 30, Monday.—Senior Class Day and Concert.
July 1, Tuesday, A. M.—Examination for admission.
July 1, Tuesday, A. M.—Reunion Meetings of the Literary Societies.
July 1, Tuesday, P. M.—Meeting of the Alumni Association.
July 1, Tuesday, Evening.—Oration before the Literary Societies.
July 2, Wednesday.—Commencement Exercises.

VACATION OF NINE WEEKS.

September 3, Wednesday.—Examination for admission.
September 4, Thursday.—First term begins.
November 26, Wednesday.—Anniversary of Franklin Literary Society.
December 24, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1874.

January 8, Thursday.—Second term begins.
March 25, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

HON. JAMES POLLOCK, LL.D., *President*,	PHILADELPHIA.
REV. S. M. ANDREWS, D.D., *Secretary*,	DOYLESTOWN.
REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
HON. JAMES ROSS SNOWDEN,	PHILADELPHIA.
REV. MILO J. HICKOK, D.D.,	SCRANTON.
A. PARDEE,	HAZLETON.
ALFRED MARTIEN,	PHILADELPHIA.
REV. J. H. MASON KNOX, D.D.,	PHILADELPHIA.
JOHN F. McCOY,	NEW YORK CITY.
BARTON H. JENKS,	PHILADELPHIA.
THOMAS BEAVER,	DANVILLE.
JOSEPH H. SCRANTON,*	SCRANTON.
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WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	NEW YORK CITY.
THOMAS L. McKEEN,	EASTON.

TREASURER,

PROF. JAMES H. COFFIN, EASTON, PA.

* Died June, 1872.

MEMBERS OF THE FACULTY.

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(Jessie Chamberlain Professorship of Botany.)

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ADJUNCT PROFESSOR OF CHEMISTRY.

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ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

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TUTOR IN GREEK AND LATIN.

JOSEPH JOHNSTON HARDY, A.B.,

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TUTOR IN LATIN.

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JOHN MEIGS, A.B.,

TUTOR IN LATIN AND GREEK.

JEFFERSON SNYDER, A.B.,

TUTOR IN MODERN LANGUAGES.

WM. SEMPLE SWEENY, A.B.,

ASSISTANT IN CHEMISTRY.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1873.

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FRANK CARTER,	MAHANOY CITY.
DAVID THOMAS,	CATASAUQUA.

Term Expires 1874.

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A. A. DOUGLAS,	MAUCH CHUNK.
C. D. WOOD,	NEW YORK CITY.
H. C. FAHNESTOCK,	NEW YORK CITY.
HENRY J. WILLIAMS,	CHESTNUT HILL.

Term Expires 1875.

ASHBEL WELSH,	LAMBERTVILLE, N. J.
SELDEN T. SCRANTON,	OXFORD, N. J.
JOHN LEISENRING,	MAUCH CHUNK.
HENRY K. SMITH,	CHESTNUT HILL.
W. DWIGHT BELL,	PHILADELPHIA.

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COMMITTEE OF THE ALUMNI.

REV. SAMUEL A. GAYLEY, A.M., Class of 1847, President of Alumni Association, Colora, Md.

REV. ANDREW TULLY, A.M., Class of 1837, Beemerville, N. J.

HON. J. MORRISON HARRIS, Class of 1838, Baltimore, Md.

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HORATIO G. FISHER, A.M., Class of 1855, Huntingdon.

ABRAM A. SMITH, A.M., M.D., Class of 1868, New York City.

STUDENTS.

REFERENCES.

East College, E.—West College, W.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powell Hall, P.—McKeen Hall, McK.—Partial Course, †.—Special Course, ‡.

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
John Fox, A.B.,	Lafayette, 1872. Easton, South Sixth Street.	Philology.
Chas. Albert Sandt, A.B.,	Lafayette, 1872. Easton, 187 Northampton St.	Blackstone.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Frederick Henry Adams,	*Vergennes, Vt.*	125 Bushkill St.
William Clarke Alexander,	*Lewistown,*	47 E.
William Caldwell Anderson,	*Youngstown,*	23 N.
Eleazer Jacob Angle,	*Rummerfield,*	7 P.
Lloyd Paxton Appelman,	*Bloomsburg,*	31 E.
Stephen Goodyear Barnes,	*Perth Amboy, N. J.*	37 E.
Edward Newell Barrett,	*Bedford, N. Y.*	17 N.
Emery Shepperd Barrick,	*Croton, N. J.*	14 B.
Enoch Benson,	*Bridgeton, N. J.*	37 E.
Franklin Pierce Billmeyer,	*Bloomsburg,*	36 E.
Charles Edward Burns,	*Duncannon,*	10 McK.
Milton Lewis Cook,	*Merryall,*	College Hill.
Albert Hatch Davidson,	*Augusta, Georgia,*	13 E.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
John George Diefenderfer,	*Allentown*,	10 McK.
Theodore Cowan English,	*Liberty Corner, N. J.*	13 E.
Thomas Crawford Galbreath,	*Pylesville, Md.*	38 E.
George Lane Huggins,	*New York City*,	22 E.
Wesley Middleton Hyde,	*Baltimore, Md.*	15 B.
Hathaway Kemper,	*Dayton, Ohio*,	48 E.
Daniel McKinley Kennedy,	*Chambersburg*,	27 E.
Edward Mathias Killough,	*Harrisburg*,	12 E.
Cyrus Knecht,	*Easton*,	7 P.
George Mortimer Lewis,	*Wyalusing*,	21 E.
William Raby Little,	*West Chester*,	12 E.
Thomas McNinch,	*Potts Grove*,	13 McK.
Ambrose Kirtland Michler,	*San Francisco, Cal.*	174 North'n St.
John Albert Mouk,	*Columbia*,	34 E.
Alexander Ross Read,	*Clearfield*,	9 N.
Henry Rumer,	*Wilmington, Del.*	20 B.
John Milton St. Clair,	*Indiana*,	45 E.
Isaac Peter Schaeffer,	*Fleetwood*,	22 E.
William Henry Schuyler,	*Bloomsburg*,	32 E.
Walter Moffat Shanks,	*New York City*,	4 W.
Joseph Rosenbery Shimer,	*Martin's Creek*,	9 M.
Albert Peter Silver,	*Glenville, Md.*	47 E.
Lewis Frank Sprenger,	*Kutztown*,	27 McK.
Herman Alricks Stees,	*Mifflinburg*,	12 B.
Wilson Cunningham Sterling,	*New Derry*,	13 B.
Henry McDonald Struble,	*Pleasant Valley, N. J.*	28 McK.
Nathaniel Taylor,	*Mooresburg*,	13 McK.
Levi Ellmaker Waller,	*Bloomsburg*,	32 E.
Joseph Gilliard Williamson, Jr.,	*Sidney, N. J.*	10 P.

SENIORS.....42

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	*Mount Pleasant, N. J.*	11 N.
George Bonbright Anderson,	*Youngstown,*	21 N.
John Watts Baer Bausman,	*Lancaster,*	18 McK.
William Hanna Bayless,	*Glenville, Md.*	34 E.
William Crawford Bovard,	*Brady,*	8 P.
Elijah Rittenhouse Case,	*Frenchtown, N. J.*	23 McK.
Levi Welts Case,	*Frenchtown, N. J.*	23 McK.
Robert Lorenzo Clark,	*Chestnut Level,*	23 McK.
Enoch Israel Davies,	*Phillipsburg, N. J.*	15 McK.
Arthur Granville Dewalt,	*Kutztown,*	22 McK.
Latimer Banks Doty,	*Mifflintown,*	10 N.
Pennell Coombe Evans,	*Easton,*	28 E.
Francis George Fisher,	*Standing Stone,*	11 McK.
Angus Lewis Fullerton,	*Chillicothe, Ohio,*	12 P.
James Buchanan Gilfillan,	*Parkesburg,*	17 McK.
Robert Henderson Hamilton,	*Altoona,*	12 N.
Jacob Butz Heller, Jr.,	*Easton,*	27 McK.
Clinton Hilliard,	*Easton,*	14 E.
George Moyer Holt,	*South Easton,*	Canal Street.
Frederick Emanuel Keim,	*Easton,*	28 E.
Clay Kemble,	*Philadelphia,*	8 M.
William McKeen Miller,	*Port Jervis, N. Y.*	18 McK.
Charles Joseph Nourse,	*Washington, D. C.*	6 M.
Nathaniel Marion Orr,	*Wilkes Barre,*	20 McK.
Israel Platt Pardee,	*Hazleton,*	12 P.
Sylvanus Rockafellow Queen,	*Mount Pleasant, N. J.*	18 B.
Samuel Miller Riley,	*Montrose,*	12 M.
Emilius Kitchell Sayre,	*Monticello, Mo.*	6 M.
Joseph Alexander Snively,	*Greencastle,*	27 E.
Samuel Sprecher,	*Lancaster,*	11 M.
Samuel Luther Stiver,	*Potter's Mills,*	23 E.
John Franklin Stonecipher,	*Palmersville,*	23 E.
George Robert Van Reed,	*Reading,*	22 N.
Samuel Robert Warrender,	*Stapleton, N. Y.*	17 B.
Ethan Allen Weaver,†	*Easton,*	2 N.
John William Pomeroy Weston,	*Brooklyn, N. Y.*	14 M.
John James Williams,	*White Lake, N. Y.*	14 E.
John Robert Williams,	*Frenchtown, N. J.*	16 B.

JUNIORS.....38.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Walter Frederick Bainbridge,†	*Mount Holly, N. J.*	51 E.
Samuel Austin Besson,	*Everettstown, N. J.*	16 B.
Kersey Smith Blake,	*Granville, Ill.*	9 P.
Joseph Brakeley,‡	*Bordentown, N. J.*	Northampton St.
Charles Bransby,†	*Bogota, South America,*	14 McK.
Henry Brinton Buckwalter,	*West Chester,*	16 E.
Henry Scarborough Carey,	*Taylorsville,*	24 E.
Thomas Craig,	*Pittston,*	58 E.
Jesse Van Auken Craighead,	*New York City,*	10 M.
John William Creveling,	*Bloomsbury, N. J.*	5 McK.
William Walter Dale,	*Franklin,*	6 McK.
Andrew Fine Derr,	*Wilkes Barre,*	9 McK.
Henry Mathews Du Bois,†	*Doylestown,*	1 P.
Montgomery Evans,	*Limerick Station,*	16 E.
Howard Fackenthall,†	*Riegelsville,*	5 W.
Samuel Wilson Fleming,	*Harrisburg,*	12 M.
James Gilbert Gibbs,‡	*Norwalk, Ohio,*	60 E.
William Henry Harrison,	*Easton,*	Lafayette Park.
John Roberts Henderson,	*Middlebrook, Md.*	24 N.
Willis Stanley Hetrick,	*Easton,*	21 E.
James Henry Hicks,	*Wyoming,*	49 E.
Zacharias Christman Hoch,	*Kutztown,*	1 McK.
Joseph Ellis Hoffman,	*Danville,*	35 E.
Herbert Hallet Jackson,	*Brooklyn, N. Y.*	24 McK.
Nicholas Henry Larzelere,	*Whitehallville,*	6 McK.
Charles Henry Lee,	*Hanover, Ind.*	20 E.
John Morgan Lewis,	*Pittston,*	49 E.
Arthur Millington McComb,	*Dayton, Ohio,*	48 E.
Rollin Scott Manley,	*East Canton,*	33 E.
Charles Howard Milligan,†	*Greenville, Tenn.*	59 E.
Henry Emmanuel Otto,†	*West Chester,*	19 McK.
Hamilton H. Pollock,	*Callensburg,*	21 McK.
Albert Andrews Richards,	*Buck Valley,*	17 McK.
Richard Anderson Roberts,	*New York City,*	College Hill.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
George Manville Robison,	*East Springfield,*	60 E.
John Elliot Ross,	*Mahanoy City,*	13 M.
Thomas Dolan Sayre,	*Monticello, Mo.*	6 M.
Charles Payson Gurley Scott,	*Washington, D. C.*	8 McK.
Joseph Whitfield Scroggs,	*Greenfield, Mo.*	2 McK.
Samuel Wilson Shadle,	*Reedville,*	35 E.
Michael Jonas Shalter,	*Tuckerton,*	22 McK.
William Clayton Shipman,	*Easton,*	43 E.
George Edward Silver,	*Churchville, Md.*	19 E.
William Finney Silver,	*Churchville, Md.*	19 E.
Edmund Dell Smith,	*Pottsville,*	9 McK.
John Charles Stuckert,†	*Warrington,*	1 P.
Andrew Jackson Sullivan,	*Blackwood, N. J.*	24 McK.
Welling Evan Thomas,	*Stevensville,*	33 E.
George Cyrus Tilden,	*Brooklyn, N. Y.*	12 McK.
Arthur Everett Turner,	*Parkesburg,*	30 E.
James Wilson Walk,	*Philadelphia,*	19 N.
Lewis Burd Walker,	*Pottsville,*	3 McK.

SOPHOMORES.....52

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Joseph Kirkwood Alexander,	*Moundsville, W. Va.*	9 P.
Milton Rothrock Alexander,	*Lewistown,*	58 E.
Edward Harrison Anderson,	*Bedford,*	25 McK.
Clarence Newton Andrews,	*Easton,*	94 Spring Garden St.
Joseph Howell Andrews,	*Phillipsburg, N. J.*	18 B.
George Albert Angle,	*Roxburg, N. J.*	9 M.
Carlos Enrique Armijo,†	*Chihuahua, Mexico,*	19 McK.
Horace Snyder Bachman,	*Easton,*	60 N. 3d St.
James Bacon,	*Osceola,*	4 McK.
Isaac Barber,	*Phillipsburg, N. J.*	3 McK.
George Gilbert Barnes,	*Churchville, Md.*	15 E.
Allen Peter Berlin,	*Cherryville,*	8 McK.
Charles Welles Bixby,	*Wyalusing,*	26 McK.
Maynard Bixby,	*Wyalusing,*	26 McK.
Silas Belden Brown,	*May's Landing, N. J.*	19 B.
Harry Clay Bubb,	*Montoursville,*	57 E.
John Alfred Buchanan,	*Honeybrook,*	13 P.
Robert Finney Caldwell,	*Lawrenceville, N. J.*	College Hill.
John Waugh Clendenin,	*Mechanicsburg,*	10 M.
Edward Rutherford Conant,	*Elizabeth, N. J.*	36 E.
Wilking Britton Cooley,	*Easton,*	52 Northampton St.
Frederick George Corbin,	*New Milford,*	11 McK.
John Alexander Covode,	*Lockport,*	25 McK.
Augustus Creveling,†	*Washington, N. J.*	82 Spring Gard. St.
William Franklin Dannehower,	*Tylersport,*	7 McK.
Charlton Kirby Davis,†	*Belvidere, N. J.*	College Hill.
Ira Dumont,	*Phillipsburg, N. J.*	14 P.
John Armstrong Dunlap,	*Newville,*	50 E.
Harry Emmons,	*Wilmington, Del.*	2 McK.
Luther Melick Fine,†	*Musconetcong, N. J.*	5 W.
John Slough Freemann,	*Centre Point,*	46 E.
John Bennett Fuller,	*Montoursville,*	57 E.
John Torrey Fuller,	*Wilkes Barre,*	174 Northampton St.
Chester Fulmer,†	*Easton,*	43 E.
James Gayley,	*Colora, Md.*	5 McK.
Jacob Bruner Graham,	*Honeybrook,*	13 P.
Henry Lewis Griffis,	*Montrose,*	14 M.
Augustus Harper Raiguel Guiley,	*South Easton,*	2 N.
Thomas Abraham Horn Hay,	*Easton,*	127 Northampton St.

NAMES.	RESIDENCES.	ROOMS.
John King Hays, Jr.,	*Williamsport*,	56 E.
Alfred Heebner,	*Port Carbon*,	3 McK.
John Burke Hendry,	*Easton*,	26 N. 4th St.
William McMeens Hepburn,	*Williamsport*,	41 N. 3d St.
John Henry Hosie,	*Tamaqua*,	41 N. 3d St.
Everett Newell Huggins,	*New York City*,	85 Bushkill St.
Forrest Hulings,	*Emlenton*,	Bushkill St.
Willis Martin Hunt,	*Clarksville, N. J.*	10 P.
John Coleman Irwin,	*Livermore*,	College Hill.
Harry Tilge Johnson,	*Pennsgrove, N. J.*	85 Bushkill St.
Matthew Hale Jones, Jr.,	*Easton*,	87 Centre Square.
John Franklin Keller,	*Lancaster*,	14 P.
James Kepple,	*Congruity*,	College Hill.
Alexander Lowry Kinkead,	*Hopewell*,	46 E.
William Philip Kinsey,	*South Easton*,	56 E.
Henry Rush Koch,	*Bath*,	8 McK.
Henry Reichenbach Kraber,†	*York*,	62 Bushkill St.
Edwin Houston Lamberton,	*Franklin*,	27 McK.
Asa Leard,	*Cowansville*,	College Hill.
Thomas William Leard,	*Cowansville*,	College Hill.
Robert Fullerton Lind,	*Mansfield, Ohio*,	58 Bushkill St.
John Thomas Lloyd,	*Corwen, North Wales*,	Lafayette Park.
Arthur Coffin Logan,	*Scranton*,	11 P.
Harry Vannuys Logan,	*Scranton*,	11 P.
Albert Miller Long,	*Pittsburgh*,	60 Bushkill St.
Henry Long,	*Honeybrook*,	22 N.
Grover Stout Lowe,	*Somerville, N. J.*	15 E.
John Moore McCahan,	*Burkeville, Va.*	7 W.
Oliver Campbell McClure,	*Thurlow*,	College Hill.
William Henry McCurdy,	*Slate Hill*,	38 E.
William Cummins McKnight,	*Chambersburg*,	45 E.
Abram McMurtrie,	*Belvidere, N. J.*	20 McK.
Henry Stephen Magraw,	*Colora, Md.*	59 E.
John Edwin Mann,	*Fairfield, N. C.*	College Hill.
Oliver Hoffman Melcher,	*Kintnersville*,	9 W.
Henry Daniel Michler,	*Easton*,	Lafayette Park.
William Paul Mifflin,	*McDonough, Del.*	10 E.
James Monaghan,	*Sedalia, Mo.*	30 E.
Samuel Black Neilson,	*New Bloomfield*,	50 E.
Austin Craig Norwood,	*Emerson, Iowa*,	20 E.
Clearfield Park,	*Bloomsbury, N. J.*	5 McK.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Edward Peacock,	*Lancaster*,	11 M.
William Alexander Petrikin,†	*Muncy*,	51 E.
John Richard Pfouts,†	*Jersey Shore*,	62 Bushkill St.
John Phillips,	*Alexandria*,	24 E.
William Lewis Plack,†	*Altoona*,	Prof. Fox.
John Porter,	*Easton*,	Prof. Porter.
Henry Emery Raesly,	*Mount Bethel*,	14 E.
George Montgomery Rea,	*Hackettstown, N. J.*	62 Bushkill St.
Brittain Magargle Reed,	*Lairdsville*,	56 E.
Frank B. Reed,†	*Clearfield*,	16 E.
James Reese Schick,†	*Easton*,	85 Bushkill St.
George Eyster Scott,	*Huntingdon*,	12 McK.
Nicholas Scott,	*Cincinnati, Ohio*,	60 Bushkill St.
Herbert Francis Seip,	*Easton*,	81 Centre Square.
Wilson Selner,	*Kintnersville*,	9 W.
John Jay Serfass,	*Easton*,	183 Northampton St.
Wyn Reeves Sewell,	*Allegheny*,	8 M.
John Graff Shields,	*Blairsville*,	8 P.
Porter William Shimer,	*Easton*,	Lafayette Park.
Cyrus Lee Stevens,†	*Stevensville*,	White House.
William Clark Stull,	*Milford, N. J.*	6 W.
Israel Henry Supplee,	*West Haverford*,	12 McK.
John Bascom Taylor,	*Wyalusing*,	4 McK.
Horace Frank Weeks,	*Philadelphia*,	13 M.
George Brakely White,	*Belvidere, N. J.*	11 McK.
Victor Piollet Wierman,	*Harrisburg*,	174 Northampton St.
James Carter Wright,	*Mifflintown*,	14 P.
Benjamin Booth Wynkoop,	*Bellevue, Iowa*,	125 Bushkill St.
Charles Oliver Young,	*Port Jervis, N. Y.*	Lafayette Park.

SUMMARY.

Resident Graduates		2
Undergraduates,	Seniors	42
	Juniors	38
	Sophomores	52
	Freshmen	109
	Total	243

VERMONT	1	VIRGINIA	1	ILLINOIS	1
NEW YORK	13	WEST VIRGINIA	1	IOWA	2
NEW JERSEY	34	NORTH CAROLINA	1	MISSOURI	4
PENNSYLVANIA	156	GEORGIA	1	CALIFORNIA	1
DELAWARE	3	TENNESSEE	1	MEXICO	1
MARYLAND	10	OHIO	6	SOUTH AMERICA	1
DIST. OF COLUMBIA	2	INDIANA	1	WALES	2

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized in 1866, to carry into effect the conditions of a donation from A. PARDEE, ESQ., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 Mr. Pardee made another donation of $200,000, for the erection of a building designed for the Departments of Engineering, Metallurgy, and Chemistry. This building will be completed during the present year.

The Board have thus been enabled to add to the Faculty of the College eminent instructors in the various Departments of Physical Science, and to provide the buildings and apparatus necessary for thorough Courses of Scientific Instruction. The Trustees have accordingly established the PARDEE SCIENTIFIC DEPARTMENT IN LAFAYETTE COLLEGE, including,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that

our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the students of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged in which students may, if they choose, devote themselves, during the Junior and Senior years, to studies essentially practical and technical, viz:

I. ENGINEERING, Civil and Mechanical. This Course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges; the

trigonometrical and topographical survey of States, Counties, etc., the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY. This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploration, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY. This course includes text-book study, lectures and laboratory practice, every facility for which is found in the Laboratories of JENKS CHEMICAL HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Course, special attention will be given in the various Departments of Study to the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness' Latin Prose Composition (Part I.); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 $\frac{22}{22}$); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—1. *Engineering, Civil and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 28 and 29.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. / Livy. } Elective.
Latin Composition.
Eusebius. / Xenophon, Cyropædia. } Elective.
Classical Geography.

English Composition.
Algebra, Loomis's, (continued.)
Old Testament, in English.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Cyprian. / Livy. } Elective.
Latin Composition.
Eusebius. / Herodotus. } Elective.

Greek Antiquities.
Geometry, Loomis's, (continued.)
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.

THIRD TERM.

Bible in Latin. / Horace. } Elective.
Roman Antiquities.
Greek Testament—Mark.
Greek Composition.

English Composition.
Algebra, (completed.)
Solid Geometry.
New Testament, in English.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Latin Hymns. / Horace. } Elective.
Justin Martyr. / Xenophon, Memorabilia. } Elective.
Greek Composition.

Greek Testament—Acts.
Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Study of Words, Trench.
Declamations and Themes.

SECOND TERM.

Augustine. / Cicero, de Oratore. } Elective.
Athenagoras. / Homer, Iliad. } Elective.
Greek Testament—Acts.

Rhetoric.
Archæology of Greek Literature and Art.
Conic Sections, Coffin's.
Declamations and Themes.

THIRD TERM.

Greek Hymns. / Homer, Iliad. } Elective.
Greek Testament—Acts.
Archæology of Roman Literature and Art.

French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Demosthenes, De Corona.
History of Greece.
Cicero, Tusculan Disputations.
German.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Tacitus, Germania and Agricola.
Anglo Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
Chemistry.
Greek Tragedies.
Anglo-Saxon, (continued.)
English, Shakespeare.
Fowler's English Language.
Greek Testament—Romans.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
Botany.
Zoölogy.
Anatomy and Physiology.
Plato.
History.
Confession of Faith.
Themes and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Rhetoric.
Moral Philosophy.
Evidences of Christianity.
English Literature.
Geology, (commenced.)
Mineralogy.
Juvenal and Perseus. } Elective.
Modern Languages. } Elective.
Chemistry. } Elective.
Astronomy, (completed.) } Elective.
Hebrew, Green's Grammar. } Elective.
Themes and Extemporaneous Speaking.

THIRD TERM.

Greek Harmony of the Gospels.
Butler's Analogy.
Latin and Greek Literature.
Comparative Philology.
Geology, (completed.)
Architecture.
History. } Elective.
French. } Elective.
German. } Elective.
Hebrew, Green's Grammar and Chrestomathy. } Elective.
Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Stereotomy, Elementary Drawing.
French.
English, March's Method.
English Composition.
Chemistry.
Old Testament.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
French.
German.
Chemistry.
English Composition.
Old Testament.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages.
Mineralogy.
English Composition.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French.
German.
Chemistry, (optional.)
Study of Words, Trench.
English, Bunyan.
Acts of the Apostles.
Declamations and Themes.

SECOND TERM.

Conic Sections, Coffin's.
Geometrical and Topographical Drawing.
German.
Botany.
Zoölogy.
Rhetoric.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.
Declamations and Themes.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Navigation and Surveying, Loomis's.
Modern Languages.
English, Chaucer.
Archæology of Biblical Literature.
Acts of the Apostles.
Botany. Zoölogy.
Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
French.
English, Bacon. } Elective.
Chemistry. }
Descriptive Geometry. }
Zoölogy.
Botany.
New Testament Epistles.
Declamations, Themes, and written Debates.

SECOND TERM.

Natural Philosophy, (continued.)
Shades and Shadows, (optional.)
Colored Topography, (optional.)
Zoölogy.
Botany.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.
Declamations, Themes, and written Debates.

THIRD TERM.

Natural Philosophy, (completed.)
German.
Anglo-Saxon, (continued.)
Linear Perspective, (optional.)
English, Shakespeare.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (commenced.)
Astronomy, (commenced.)
History.
Modern Languages.
Modern Literature.
Anatomy and Physiology.
Confession of Faith.
Themes and Extemporaneous Speaking.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Logic.
Rhetoric.
Moral Philosophy.
Evidences of Christianity.
Geology.
Mineralogy.
English Literature.
Modern Languages. } Elective.
Astronomy, (completed.) }
Physical Geography. }
Themes and Extemporaneous Speaking.

THIRD TERM.

Butler's Analogy.
Geology.
Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Architecture.
Comparative Philology.
History. } Elective.
Modern Languages. }
Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)	French.
Trigonometry, Loomis's.	Coleman's Biblical Geography.
Stereotomy, Elementary Drawing.	Old Testament, in English.
Chemistry.	Lectures on Health.
English.	

SECOND TERM.

Mensuration, Loomis's, (commenced.)	Chemistry.
Surveying, Loomis's.	French.
Problems in Division of Land.	German.
Drawing, Plane Problems.	Coleman's Biblical Geography.
	Old Testament.

THIRD TERM.

Algebra, (completed.)	French.
Geometry, (completed.)	German.
Surveying, Field Work.	Coleman's Biblical Geography.
Geometrical Drawing.	New Testament.

Throughout the Year.—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Mensuration, (completed.)	French.
Surveying, Field Work.	German.
Geometrical Drawing.	Trench on Words.
Chemistry, (optional.)	Acts of the Apostles.
Mineralogy.	

SECOND TERM.

Conic Sections.	French.
Topographical Drawing.	German.
Botany. Zoölogy.	English, Spenser, (optional.)
Chemistry, (optional.)	Acts of the Apostles.
Mineralogy.	

THIRD TERM.

Analytical Geometry.	French.
Differential and Integral Calculus.	German.
Descriptive Geometry.	English, Chaucer, (optional.)
Botany. Zoölogy.	Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Descriptive Geometry, (General Orthographic Projections.)
Surveying, Field Work, Adjustment of Instruments.
Modern Languages.
Zoölogy.
Botany.
Mineralogy, (optional.)
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Hydrographical Surveying.
Geodesy.
Zoölogy. Botany.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Natural Philosophy, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
General Theory of Machines.
Astronomy, (optional.)
Mental Philosophy, (optional.)
Modern Languages.
Anatomy and Physiology.
Confession of Faith.
Themes and Speaking.

SECOND TERM.

Machinery and Motors.
Machine Drawing.
Stability of Structures.
Supply and Distribution of Water.
Modern Languages.
Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Geology.
Physical Geography.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Designs for, and Reviews of Engineering Works.
The Steam Engine.
Stone Cutting.
Stability of Structures.
Philosophy of Mathematics.
Geology.
Butler's Analogy, (optional.)
Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
History, (optional.)
Themes, Speaking.

Graduation Theses.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that Qualitative Analysis in the Freshman year, and Quantitative Analysis throughout the Sophomore year, are required in place of certain engineering work.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced.)
Quantitative Analysis.
Lithology.
Surveying.
Practice with the Blow-pipe.
Modern Languages.
New Testament Epistles.
Declamations, Themes.

SECOND TERM.

Natural Philosophy.
Colored Topography.
Maps of Surveys.
Quantitative Analysis.
Practice in Lithology.
Modern Languages.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations, Themes.

THIRD TERM.

Analytical and Applied Mechanics.
Topographical Surveying.
Map of Topographical Survey.
Quantitative Analysis.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Metallurgy.
Mining.
General Theory of Machines.
Modern Languages.
Confession of Faith.
Themes, Speaking.

SECOND TERM.

Quantitative Analysis.
Assaying.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.
Political Economy.
Modern Languages.
Geology.
Mining.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Quantitative Analysis.
Metallurgy.
Mine Surveying.
Ore Deposits.
Economic Geology and Paleontology.
The Steam Engine.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Modern Languages.
Themes, Speaking.

Graduation Theses.

CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the GENERAL SCIENTIFIC COURSE. See page 21.

JUNIOR YEAR.

FIRST TERM.

Natural Philosophy, (commenced)
Qualitative Analysis.
Zoölogy. Botany.
Blow-pipe.
Lithology.
New Testament Epistles.
French. } Elective.
English. }
Drawing. }
Declamations, Themes.

SECOND TERM.

Natural Philosophy, (continued.)
Qualitative Analysis.
Zoölogy. Botany.
Constitution of the United States.
New Testament Epistles.
German. } Elective.
English. }
Anglo-Saxon. }
Declamations, Themes, and Extemporaneous Speaking.

THIRD TERM.

Natural Philosophy, (completed.)
Qualitative Analysis.
Physical Geography.

English, Shakespeare.
Anglo-Saxon.
French.
German.
} Elective.

Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Volumetric Analysis.
Anatomy and Physiology.
Modern Languages.
Course on Iron, (optional.)

Mental Philosophy, (optional.)
Astronomy, (optional.)
Confession of Faith.
Themes, Speaking.

SECOND TERM.

Organic Analysis.
Assaying.
Technical Chemistry.
Mineral Analysis.
Course on Iron, (optional.)
Geology.

Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Physical Geography.
Evidences of Christianity.
Themes, Speaking.

THIRD TERM.

Technical Chemistry.
Agricultural Chemistry.
Geology.
Reviews of Chemical Works.
Philosophy of Mathematics, (optional.)
Butler's Analogy, (optional.)

Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
Themes, Speaking.

Graduation Theses.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor in that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General Chemistry and Analytic Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytic Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, September 5th, 1872.

II. MINING ENGINEERING.

The SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. This work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankments.
Drainage.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 9th, 1873.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and Chemical Properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace, and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with Malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

Rooms in Jenks Chemical Hall are fitted up with experiment desks and other preparations for the Laboratory work of Students. The COMMON COURSE is—

General Chemistry.
Qualitative Analysis
Quantitative Analysis.
Volumetric Analysis.
Organic Analysis.
Mineral Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 5th, 1872, and on Thursday, January 9th, 1873.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course. For the course in Christian Latin and Greek, see p. 31.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and *Alexander's Moral Science* are used as text-books during the first and second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of Classic authors is accompanied with daily lessons in Grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows :

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology, (commenced.)
	Third Term.	Etymology of Verbs. Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (commenced)
	Second Term.	Syntax, (modes) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Demosthenes, Tacitus, Cicero, and Plato, in these relations.

Course of Christian Latin and Greek.—The Trustees have been enabled, by the munificence of Mr. Benjamin Douglass, to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching will be provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books.

Mr. Douglass has established, for the present college year, the following prizes for proficiency in this Course, viz: One of one hundred dollars, four of fifty dollars each, and four of twenty-five dollars each.

Harkness' Grammar and Andrews' Lexicon are used for Latin ; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed ;

the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's Unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the college, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862 by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1871 were examined on Burns.—The prize was awarded to William Baxter Owen.

The class of 1872 were examined on Pope.—The prize was awarded to James I. Good. The class of 1873 will be examined on Goldsmith.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, has been founded by O. J. Harvey, A.B., of the class of 1871.

In the class of 1873 it was awarded to S. G. Barnes.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1872, offered by the London Society of that name for the best examination in English before Chaucer, was won by S. G. Barnes, of 1873, for the best examination in Beowulf.

RHETORIC.

Besides the study of text-books, weekly written essays are required, and declamations are had every Saturday in class, and every Thursday before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second Term.*	Botany. Zoölogy.
	Third Term.	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Botany.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore, and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, blow-pipe, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the Flora of Pennsylvania, which is believed to be the most complete in existence. In GEOLOGY, beside the text-book study, Prof. Porter delivers a course of lectures.

In the *Technical Courses* further instruction is given in Mineralogy and Geology in their relations to the arts. These studies may also be pursued in

A POST-GRADUATE COURSE.

MATHEMATICS, PHYSICS, AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Natural Philosophy, (commenced.)
	Second Term.	Natural Philosophy, (continued.)
	Third Term.	Natural Philosophy, (completed.)
SENIOR YEAR.	*First Term.*	Astronomy, (commenced.)
	Second Term.	Astronomy, (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 23—27.

Text-books are used as mentioned on pages 19, 20, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field work of every kind. In Astronomy they are taught the working of the Observatory.

PRIZES.—Two prizes were founded in this department in 1868. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. In 1870 it was awarded to R. W. D. Bryan, in 1871 to James C. Crawford, in 1872 to Jefferson Snyder. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1870 to A. Swartz, in 1871 to James I. Good, in 1872 to Nathaniel Taylor.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. Students are invited to pursue Analytical Chemistry through the rest of the course. Part of the Jenks Hall is fitted up with experiment desks and other apparatus, so that each student may have every aid known to modern educators in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 29.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History. (Lectures.)
	Second Term.	Political Economy.
	Third Term.	History. (Lectures.)

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations.

Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. The physical training is a part of the regular College Course, and is under the immediate supervision of the Professor of Physical Culture.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students. Thursday evening there is divine service, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred upon the graduates of the Classical department. Those students who have completed the General Scientific Course of four years, and passed a satisfactory final examination, will be admitted to the degree of BACHELOR OF PHILOSOPHY.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of BACHELOR OF SCIENCE.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department, who has pursued for two years the Post-Graduate Course of

the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is $6.

Certificates.—Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or General Scientific Course	$15.00 a term.
Tuition in the Technical Courses, Working Sections	25.00 "
Room-rent, from $2 to $10 (average)	6.00 "
General expense	5.00 "
Library and Reading Room	2.00 "
Fuel, at cost, (average for the past year)	8.00 a year.

The matriculation or admission fee is $3; the fee for diploma, &c., at graduation, or for a certificate, is $6. The matriculation fee and all fees for diplomas and certificates are appropriated to the Library fund.

The fees for students pursuing advanced studies in Chemistry, Mining, Engineering, &c., may be learned on application to the President.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of Board in clubs the past term was from $2.65 to $4.50 per

week. Board, including furnished room in private families, is from $5 to $6 per week. The rooms in the College buildings are unfurnished. Students find their own fuel, at an average cost of from six to ten dollars a year.

Tuition, room-rent, general expense, and charge for Library must be paid each term in advance. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed $275; students sometimes keep them less than $200; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure; for which services he will charge a commission.

Societies.—There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well-furnished Halls. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address on Sabbath evening preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room alternate Monday evenings, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

READING ROOM.—The EASTONIAN HALL, in the new wing of East College, is fitted up as a Reading Room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. The dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning and afternoon, and for general reading out of study hours.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good stand-

ing) as may have been elected." The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

Libraries.—The College Library is open Wednesday, Thursday, and Friday, at 9 o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

Terms and Vacations.—The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2.

All the Classes are examined at the close of each term.

Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

During the past year the College Collections have been enriched, through the liberality of the Hon. W. H. KEMBLE, of Philadelphia, by a large and very choice collection of minerals, comprising the best selections from the cabinet of the Rev. Dr. BEADLE, of Philadelphia, the result of his enthusiastic and arduous labors for thirty years in collecting.

Mr. KEMBLE has also presented to the College a large collection of corals, containing many unique specimens, a large collection of marine, fresh water, and land shells, and a valuable collection of fossils from the silurian, lias, and other formations, containing a fine series of ammonites, some remarkable trilobites and crinoids. These collections also comprise the choicest specimens from the large cabinet of Dr. BEADLE.

Valuable contributions to the mineralogical collections have also been made by CYRUS BUTLER, Esq., of New York, and Prof. W. TH. ROEPPER, of Bethlehem. B. L. SAVORY, Esq., and Messrs. KIMBALL and OGDEN, of California, have presented to the College a fine collection of the forest woods of the Pacific coasts.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of early English texts.

In the departments of Acoustics, Optics, Electricity, and Graphics, the amount of apparatus has been largely increased by recent purchases.

THE PARDEE BUILDING.

The friends of the College and of liberal learning have to thank the munificent founder of the Pardee Scientific Department for a new building for the use of that department. It consists of one centre building, five stories in height, fifty-three feet front and eighty-six deep, and two lateral wings, one on each side of the centre building, measuring sixty-one feet in length and thirty-one in width; four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front in a straight line is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand stone. It is to be heated throughout by steam. The first floor is mainly devoted to the study of mining and metallurgy; the second contains the geological and mineralogical cabinets, a spacious auditorium, and smaller lecture rooms, reading rooms, and professors' studies. The third floor is devoted to the engineers. The right wing is occupied by the mining engineers. A large drawing room occupies the lateral wing, while the cross wing embraces rooms for models and various professional purposes. The left wing is occupied by the civil engineers. The lateral wing comprises a drawing-room, and the cross wing is divided into rooms for lectures, working models, collections, and the like. On the fourth floor the same ample provision has been made for the chemists. The centre building is divided into two large rooms, one for technical collections, the other an assistant's room. The lateral wings are intended for quantitative and qualitative analysis. The cross wings at the extremity of the building are occupied by additional laboratories, lecture rooms, professors' studies, &c.

In determining what rooms were needed and the best arrangement of them, similar buildings in Europe as well as this country, were carefully studied, and liberal provision has been made for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches in these departments. The architectural designs are the work of Mr. McArthur, of Philadelphia, and it is to be completed under contract by Mr. Lewis Havens in the most substantial manner, at a cost, exclusive of furnishing and apparatus, of about $200,000. It is expected that it will be ready for use at the beginning of the next college year, September 3, 1873.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1873–1874.

WITH THE COURSES OF STUDY.

EASTON, PA.
1874.

COLLEGE CALENDAR.

1873.

September 4, Thursday.—First term began.

December 24, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1874.

January 8, Thursday.—Second term began.

January 29, Thursday.—Day of Prayer for Colleges.

February 23, Monday.—Anniversary of the Washington Literary Society.

March 25, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 9, Thursday.—Third term begins.

June 15—17.—Final Examination of the Senior Class.

June 25—29.—Examination of the lower classes.

June 28, Sunday, A. M.—Baccalaureate Sermon.

June 28, Sunday, P. M.—Sermon before the Brainerd Missionary Society, by Rev. Frank L. Robbins, Pastor of Oxford St. Presbyterian Church, Phila.

June 29, Monday. Senior Class Day and Concert.

June 30, Tuesday, A. M.—Reunion Meetings of the Literary Societies.

June 30, Tuesday, P. M.—Meeting of the Alumni Association.

June 30, Tuesday Evening.—Oration before the Literary Societies, by Hon. George M. Robeson, Secretary of the Navy.

July 1, Wednesday.—Commencement Exercises.

July 2, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

September 1—2, Tuesday and Wednesday.—Examinations for admission.

September 3, Thursday.—First term begins.

November 26, Thursday.—Anniversary of Franklin Literary Society.

December 23, Wednesday —First term ends.

VACATION OF TWO WEEKS.

1875.

January 7, Thursday.—Second term begins.

March 24, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

HON. JAMES POLLOCK, LL.D.,	PHILADELPHIA.
REV. S. M. ANDREWS, D.D.,	DOYLESTOWN.
REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
HON. JAMES ROSS SNOWDEN, LL.D.,	PHILADELPHIA.
A. PARDEE,	HAZLETON.
ALFRED MARTIEN,	PHILADELPHIA.
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JOHN F. McCOY,	NEW YORK CITY.
BARTON H. JENKS,	PHILADELPHIA.
THOMAS BEAVER,	DANVILLE.
JOHN WELLES HOLLENBACK,	WILKES BARRE.
WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. McKEEN,	EASTON.

OFFICERS OF THE BOARD.

JAMES POLLOCK,	PRESIDENT.
ALFRED MARTIEN,	SECRETARY.
SAMUEL L. FISLER,	TREASURER.

MEMBERS OF THE FACULTY.

REV. WILLIAM C. CATTELL, D.D., PRESIDENT,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY,

TRAILL GREEN, M.D., LL.D.,
ADAMSON PROFESSOR OF GENERAL AND APPLIED CHEMISTRY.

JAMES HENRY COFFIN, LL.D.,*
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

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PROFESSOR OF THE ENGLISH LANGUAGE AND COMPARATIVE PHILOLOGY.

REV. JOHN LEAMAN, A.M., M.D.,
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

REV. LYMAN COLEMAN, D.D.,
PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

REV. THOMAS C. PORTER, D.D.,
PROFESSOR OF BOTANY AND ZOOLOGY.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, A.M.,
PROFESSOR OF MODERN LANGUAGES.

REV. R. B. YOUNGMAN, A.M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREDERICK PRIME, JR., A.M.,
PROFESSOR OF METALLURGY AND MINERALOGY.

E. HUBBARD BARLOW, A.M.,
PROFESSOR OF RHETORIC AND ELOCUTION, AND OF PHYSICAL CULTURE.

ROSSITER W. RAYMOND, PH. D.,
LECTURER ON MINING GEOLOGY.

REV. SELDEN JENNINGS COFFIN, A.M,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

* Died February 6.

JAMES W. MOORE, A.M., M.D.,
PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

JUSTUS M. SILLIMAN, M.E.,
MARKLE PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

JOSEPH G. FOX, C.E.,
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

CHARLES McINTIRE, A.M., M.D.,
ADJUNCT PROFESSOR OF CHEMISTRY.

WALTER Q. SCOTT, A.M.,
ADJUNCT PROFESSOR OF LATIN.

ARTHUR LATHAM BAKER, C.E.,
ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

JOSEPH J. HARDY, A.M.,
TUTOR IN MATHEMATICS.

D. B. KING, A.B.,
TUTOR IN LATIN.

W. B. OWEN, A.B.,
TUTOR IN GREEK.

JOHN MEIGS, A.B.,
TUTOR IN LATIN AND GREEK.

WILLIAM S. SWEENY, A.B.,
ASSISTANT IN CHEMISTRY.

FRANCIS W. EDGAR, A.B.,
TUTOR IN RHETORIC AND ELOCUTION.

CHARLES E. BURNS, A.B.,
TUTOR IN ANCIENT LANGUAGES.

JOHN G. DIEFENDERFER, C.E.,
TUTOR IN MATHEMATICS.

NATHANIEL TAYLOR, A.B.,
TUTOR IN MODERN LANGUAGES.

WM. H. WEAVER, Janitor.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DRPARTMENT.

Term Expires 1874.

JOHN W. GARRETT,	BALTIMORE, MD.
A. A. DOUGLAS,	MAUCH CHUNK.
C. D. WOOD,	NEW YORK CITY.
H. C. FAHNESTOCK,	NEW YORK CITY.
HENRY J. WILLIAMS,	CHESTNUT HILL.
G. DAWSON COLEMAN,	LEBANON.

Term Expires 1875.

ASHBEL WELSH,	LAMBERTVILLE, N. J.
SELDEN T. SCRANTON,	OXFORD, N. J.
JOHN LEISENRING,	MAUCH CHUNK.
HENRY K. SMITH,	CHESTNUT HILL.
W. DWIGHT BELL,	PHILADELPHIA.
HENRY MCCORMICK,	HARRISBURG.

Term Expires 1876.

STRICKLAND KNEASS,	PHILADELPHIA.
P. W. SHEAFER,	POTTSVILLE.
FRANK CARTER,	MAHANOY CITY.
DAVID THOMAS,	CATASAUQUA.
ALFRED HAND,	SCRANTON.
CHARLES PARRISH,	WILKES BARRE.

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COMMITTEE OF THE ALUMNI.

REV. EDSALL FERRIER, A. M., President of Alumni Association, Mauch Chunk, Pa., Class of 1834.

REV. JOHN S. WOODSIDE, A. M., Kapurthala, N. India, Class of 1847.

REV. PHILIP W. MELICK, A. M., Elizabeth, N. C., Class of 1851.

HON. JOSEPH P. VASTINE, A. M., St. Louis, Missouri, Class of 1856.

REV. OLIVER STONE DEAN, A. M., Indianapolis, Ind., Class of 1858.

WM. CHAMBERS SCHULTZE, A. M., M. D., Marengo, Iowa, Class of 1862.

REV. SAMUEL W. KNIPE, A. M., Delaware Water Gap, Class of 1866.

STUDENTS.

REFERENCES.

East College, E.—West College, W.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powell Hall, P.—McKeen Hall, McK.—Special Course.†

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Frederic William Kelley, A.M., Halifax, Nova Scotia,	Cornell, 1873. 440 Northampton St.	Philology.
Joseph R. Shimer, B.S., Martin's Creek,	Lafayette, 1873. Lafayette Park.	Mining Engineering.
George Diehl Stahley, A.B., Easton,	Pennsylvania Coll., 1872. 209 North 3d St.	Chemistry.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	*Mount Pleasant, N. J.*	——
George Bonbright Anderson,	*Youngstown,*	17 N.
John Watts Baer Bausman,	*Lancaster,*	18 McK.
William Hanna Bayless,	*Glenville, Md.*	34 E.
William Crawford Bovard,	*Brady,*	8 P.
Elijah Rittenhouse Case,	*Frenchtown, N. J.*	15 McK.
Levi Welts Case,	*Frenchtown, N. J.*	23 McK.
Robert Lorenzo Clark,	*Chestnut Level,*	23 McK.
Enoch Israel Davies,	*Easton,*	Lafayette Park.
Arthur Granville Dewalt,	*Kutztown,*	9 McK.
Pennell Coombe Evans,	*Easton,*	28 E.

SENIORS—CONTINUED.

NAMES,	RESIDENCES.	ROOMS.
Francis George Fisher,	*Standing Stone*,	7 P.
Angus Lewis Fullerton,	*Chillicothe, Ohio*,	12 P.
Robert Henderson Hamilton,	*Altoona*,	11 N.
Jacob Butz Heller, Jr.,	*Easton*,	32 E.
Clinton Hilliard,	*Easton*,	14 E.
Conway Wing Hillman,	*Carlisle*,	21 N.
Frederic Emanuel Keim,	*Easton*,	32 E.
Clay Kemble,	*Philadelphia*,	8 M.
William McKeen Miller,	*Port Jervis, N. Y.*	6 McK.
Charles Joseph Nourse,	*Washington, D. C.*	6 M.
Nathaniel Marion Orr,	*Wilkes Barre*,	20 McK.
Israel Platt Pardee,	*Hazleton*,	6 McK.
Sylvanus Rockafellow Queen,	*Mount Pleasant, N. J.*	12 B.
Samuel Miller Riley,	*Montrose*,	12 M.
Emilius Kitchell Sayre, Jr.,	*Monticello, Mo.*	6 M.
Joseph Alexander Snively,	*Greencastle*,	34 E.
Samuel Sprecher,	*Lancaster*,	11 M.
Robert Annan Stewart,	*Mercer*,	10 P.
William Jones Stewart, Jr.,	*Duncannon*,	17 B.
Samuel Luther Stiver,	*Potter's Mills*,	23 E.
John Franklin Stonecipher,	*Palmersville*,	23 E.
George Robert Van Reed,	*St. Paul, Minn.*	10 N.
Samuel Robert Warrender,	*Stopleton, N. Y.*	13 B.
Ethan Allen Weaver,	*Easton*,	2 N.
William Pomeroy Weston,	*Brooklyn, N. Y.*	14 M.
John Robert Williams,	*Frenchtown, N. J.*	22 N.

SENIORS.....37.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Samuel Austin Besson,	*Everettstown, N. J.*	
Kersey Smith Blake,	*Granville, Ill.*	60 E.
Charles Bransby,†	*Bogota, South America,*	14 McK.
Henry Brinton Buckwalter,	*West Chester,*	13 E.
Henry Scarborough Carey,	*Taylorsville,*	24 E.
Robert Henderson Carothers,	*Olivet,*	45 E.
Thomas Craig,	*Pittston,*	58 E.
Jesse Van Auken Craighead,	*New York City,*	10 M.
John William Creveling,	*Bloomsbury, N. J.*	11 McK.
William Walter Dale,	*Franklin,*	27 McK.
Andrew Fine Derr,	*Wilkes Barre,*	9 McK.
Henry Mathews Du Bois,†	*Doylestown,*	1 P.
Montgomery Evans,	*Limerick Station,*	24 E.
Samuel Wilson Fleming,	*Harrisburg,*	12 M.
William Henry Harrison,	*Easton,*	Lafayette Park.
John Roberts Henderson,	*Middlebrook, Md.*	33 E.
Willis Stanley Hetrick,	*Easton,*	21 E.
James Henry Hicks,	*Wyoming,*	49 E.
Zacharias Christman Hoch,	*Kutztown,*	24 N.
Joseph Ellis Hoffman,	*Danville,*	35 E.
Herbert Hallet Jackson,	*Brooklyn, N. Y.*	44 E.
Nicholas Henry Larzelere,	*Whitehallville,*	24 McK.
Charles Henry Lee,	*Saluda, Ind.*	24 E.
John Morgan Lewis,	*Pittston,*	59 E.
Arthur Millington McComb,	*Dayton, Ohio,*	48 E.
David Williamson Nevin,	*Shippensburg,*	61 Bushkill St.
Hamilton H. Pollock,	*Callensburg,*	21 McK.
Albert Andrews Richards,	*Buck Valley,*	17 McK.
Richard Anderson Roberts,	*New York City,*	College Hill.
George Manville Robison,	*East Springfield,*	59 E.
Thomas Dolan Sayre,	*Monticello, Mo.*	48 E.
Joseph Whitfield Scroggs,	*Greenfield, Mo.*	2 McK.

JUNIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Samuel Wilson Shadle,	*Reedville*,	35 E.
William Clayton Shipman,	*Easton*,	13 E.
Edmund Dell Smith,	*Pottsville*,	9 McK.
Andrew Jackson Sullivan,	*Blackwood, N. J.*	37 E.
Welling Evan Thomas,	*Stevensville*,	33 E.
Arthur Everett Turner,	*Parksburg*,	30 E.
James Wilson Walk,	*Philadelphia*,	19 N.
Lewis Burd Walker,	*Pottsville*,	11 McK.

JUNIORS.....40

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Isaac Oakford Acton,†	*Salem, N. J.*	49 E.
Joseph Kirkwood Alexander,	*Moundsville, W. Va.*	9 P.
Milton Rothrock Alexander,	*Lewistown,*	47 E.
Clarence Newton Andrews,	*Easton,*	94 Spring Garden St.
Joseph Howell Andrews,	*Phillipsburg, N. J.*	18 B.
George Albert Angle,	*Roxburg, N. J.*	9 M.
Horace Snyder Bachman,	*Easton,*	——
James Bacon,	*Osceola,*	4 McK.
Isaac Barber,	*Phillipsburg, N. J.*	3 McK.
George Gilbert Barnes,	*Churchville, Md.*	45 E.
Allen Peter Berlin,	*Cherryville,*	8 McK.
Charles Welles Bixby,	*Wyalusing,*	26 McK.
Maynard Bixby,	*Wyalusing,*	26 McK.
Silas Belden Brown,	*May's Landing, N. J.*	5 McK.
Harry Clay Bubb,	*Williamsport,*	36 E.
John Alfred Buchanan,	*Honeybrook,*	13 P.
George Henry Campbell,	*Woodbury, N. J.*	20 E.
Richard Edward Chism,	*Norristown*	61 N. 3d St.
John Waugh Clendenin,	*Mechanicsburg,*	10 M.
Wilking Britton Cooley,	*Easton,*	52 Northampton St.
John Alexander Covode,	*Lockport,*	25 McK.
William Franklin Dannehower,	*Tylersport,*	7 McK.
Ira Dumont,†	*Phillipsburg, N. J.*	14 P.
John Armstrong Dunlap,	*Newville,*	——
Harry Emmons,	*Wilmington, Del.*	2 McK.
William Thomas Fee,	*Franklin,*	17 McK.
Luther Melick Fine,†	*Musconetcong, N. J.*	12 E.
John Slough Freeman,	*Centre Point,*	22 E
John Bennett Fuller,	*Montoursville,*	36 E.
John Torrey Fuller,	*Wilkes Barre,*	10 McK.
James Malcolm Gayley,	*Colora, Md.*	5 McK.
Jacob Bruner Graham,	*Honeybrook,*	13 P.
Dudley Wells Gregg,	*Binghamton, N. Y.*	20 McK.
Henry Lewis Griffis,	*Montrose,*	14 M.
Augustus Harper Raiguel Guiley,	*South Easton,*	2 N.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Frank Graham Harris,	*Glen Hope*,	College Hill.
Thomas Abraham Horn Hay,	*Easton*,	127 Northampton St.
John King Hays, Jr.,	*Williamsport*,	21 E.
Alfred Heebner,	*Port Carbon*,	8 P.
John Burke Hendry,	*Easton*,	26 N. 4th St.
Charles Christopher Henschen, Jr.,	*Baltimore, Md.*	50 E.
William McMeens Hepburn,†	*Williamsport*,	1 P.
Everett Newell Huggins,†	*New York City*,	85 Bushkill St.
Forrest Hulings,	*Emlenton*,	19 McK.
Willis Martin Hunt,	*Clarksville, N. J.*	10 P.
John Coleman Irwin,	*Indiana*,	9 M.
Matthew Hale Jones, Jr.,	*Easton*,	87 Centre Square.
Jackson Perry Keeney,	*Towanda*,	37 E.
John Franklin Keller,	*Lancaster*,	14 P.
James Kepple,	*Congruity*,	4 McK.
Alexander Lowry Kinkead,	*Hollidaysburg*,	46 E.
Henry Rush Koch,	*Bath*,	19 McK.
Henry Reichenbach Kraber,†	*York*,	62 Bushkill St.
Edwin Houston Lamberton,	*Franklin*,	27 McK.
Asa Leard,	*Cowansville*,	28 E.
Thomas William Leard,	*Cowansville*,	28 E.
John Thomas Lloyd,†	*Corwen, North Wales*,	Lafayette Park.
Arthur Coffin Logan,	*Scranton*,	11 P.
Harry Vannuys Logan,	*Scranton*,	11 P.
Henry Long,	*Honeybrook*.	22 N.
Grover Stout Lowe,	*Somerville, N. J.*	3. E.
John Moore McCahan,	*Burkeville, Va.*	14 B.
Oliver Campbell McClure,	*Thurlow*,	18 B.
William Henry McCurdy,	*Slate Hill*,	45 E.
William Cummins McKnight,†	*Chambersburg*,	45 E.
Abram McMurtrie,	*Belvidere, N. J.*	20 McK.
Henry Stephen Magraw,	*Colora, Md.*	11 M.
John Edwin Mann,‡	*Fairfield, N. C.*	16 E.
Oliver Hoffman Melcher,	*Kintnersville*,	20 B.
Henry Daniel Michler,	*Easton*,	Lafayette Park.
James Monaghan,	*Sedalia, Mo.*	15 B.
Samuel Black Neilson,	*New Bloomfield*,	38 E.
Austin Craig Norwood,	*Emerson, Iowa*,	20 E.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Clearfield Park,	*Bloomsbury, N. J.*	5 McK.
Edward Peacock,	*Lancaster,*	14 P.
William Lewis Plack,†	*Altoona,*	1 McK.
John Porter,	*Easton,*	Prof. Porter's.
Henry Emery Raesly,	*Mount Bethel,*	14 E.
George Montgomery Rea,†	*Hackettstown, N. J.*	62 Bushkill St.
Russell B. Rice,	*Perrysville, Ohio,*	12 N.
James Reese Schick,†	*Easton,*	85 Bushkill St.
Nicholas Scott,†	*Cincinnati, Ohio,*	60 Bushkill St.
John Jay Serfass,†	*Easton,*	183 Northampton St.
Wyn Reeves Sewell,	*Allegheny,*	8 M.
Cyrus Lee Stevens,†	*Stevensville,*	23 N.
William Clark Stull,	*Milford, N. J.*	22 E.
Israel Henry Supplee,	*West Haverford,*	12 McK.
John Bascom Taylor,	*Wyalusing,*	4 McK.
Horace Frank Weeks,†	*Philadelphia,*	13 M.
Victor Piollet Wierman,	*Harrisburg,*	12 M.
Benjamin Booth Wynkoop,	*Bellevue, Iowa,*	125 Bushkill St.

SOPHOMORES.....91.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Charles Baeder Adamson,†	*Philadelphia*,	443 Northampton St.
John Bell Alexander,	*Lewistown*,	47 E.
William John Alexander,	*East Liberty*,	10 E.
Walter Lowrie Alexander,	*Moundsville, W. Va.*	9 P.
John Hays Allen, Jr.,	*Montoursville*,	31 E.
William Mott Allison,	*Mifflintown*,	12 E.
William Edgar Baker,	*Elizabeth, N. J.*	58 E.
Charles Heath Bannard,	*Salem, N. J.*	Bushkill St.
Avon Barnes,†	*Allentown*,	College Hill.
Edwin Clark Beers,	*Phillipsburg, N.J.*	Washington St. Phil.
Park Edwards Bell,	*Pittsburgh*,	173 Northampton St.
Joseph Edward Bimm,	*Dayton, Ohio*,	51 E.
Olin Sargeant Boone,	*Espy*,	60 Bushkill St.
Joseph Brewer,	*Camden, N. J.*	40 E.
James Wilson Bright,	*Lock Haven*,	College Hill.
Wells Simon Brooks,	*Brattleboro, Vt.*	60 E.
Asher Davidson Bubb,	*Antes Fort*,	31 E.
Jacob Pennypacker Buckwalter,	*Schwenksville*,	27 E.
Manuel J. Bustillo,	*Havana, Cuba*,	173 Northampton St.
Robert Williams Clark,	*Chambersburg*,	57 E.
Harold Clemens,	*Easton*,	167 Northampton St.
John Wesley Codding,	*Towanda*,	7 P.
Frank Philip Collier,	*Belvidere, Ill.*	3 McK.
Walter Ingleton Cook,	*Trenton, N. J.*	173 Northampton St.
Frederick George Corbin,	*New Milford*,	13 M.
Robert Gilson Craighead,	*Dayton, Ohio*,	51 E.
Thomas Roney Crowell,	*Odessa, Del.*	Bushkill St.
George Palmer Curtis,	*Hackettstown, N. J.*	62 Bushkill St.
David Duncan Davidson,	*Warren*,	19 E.
Casper Dull,†	*Harrisburg*,	18 McK.
Ferdinand Van Derveer Dilts,	*Somerville, N. J.*	71 Bushkill St.
Edward Mortimer Earle,	*Catasauqua*,	New St.
Charles Henry Edgar,	*Elizabeth, N. J.*	58 E.
Albert Cecil Fairchild,	*Newark, N. J.*	60 Bushkill St.
Thomas Chalmers Ferguson,	*Bordentown, N. J.*	——
Daniel Fleisher,	*Newport*,	50 E.
James Wesley Gilland,	*Shady Grove*,	27 E.
Edwin Schere Glanz,	*Easton*,	60 Northampton St.
Charles Cooper Griffith,	*Brady*,	15 E.
James Tracy Hale,	*Towanda*,	7 P.

NAMES.	RESIDENCES.	ROOMS.
Alexander Hamilton,	*Johnstown*,	College Hill.
Russell B. Harrison,†	*Indianapolis, Ind.*	173 Northampton St.
John Clemson Hazard,	*Mauch Chunk*,	173 Northampton St.
John Peter Hecht,	*Easton*,	77 Bushkill St.
Abraham Hogeland,	*Doylestown*,	16 B.
Albert Harrison Hogeland,	*Davisville*,	30 E.
Andrew Porter Huey,	*Airy Dale*,	28 McK.
David Hunt,	*Catasauqua*,	New St.
Walter Barton Jenks,	*Bridesburg*,	New St.
Charles Robert Kline,	*Lancaster*,	60 Bushkill St.
Charles Paxton Knapp,	*Wilkes Barre*,	113 Bushkill St.
Alfred Preston Laubach,	*Siegfried's Bridge*,	19 McK.
Rosh Leaman,	*Leaman Place*,	69 Bushkill St.
John McFarland Leech,	*Saltsburg*,	15 E.
Charles Franklin Lewis,	*Knowlesville, N. Y.*	26 N. 3d St.
Ellis Reuben Lichtenwallner,	*Allentown*,	College Hill.
Robert Fullerton Lind,	*Mansfield, Ohio*,	——
Albert Miller Long,	*Allegheny City*,	18 McK.
Edwin Wack Long,	*Philadelphia*,	56 E.
Leslie McLean Long,	*Wilkes Barre*,	56 E.
Simon Cameron Long,	*Pine Grove*,	College Hill.
Frank F. Lyon,†	*Bernice*,	——
Henry McCollum,	*Chester*,	18 B.
Henry Mahn McIntire,	*Easton*,	Washington St.
Charles Macalester, Jr.	*Philadelphia*,	173 Northampton St.
Charles W. Macfarlane,	*Philadelphia*,	College Hill.
Clifton Mayfield,	*Georgetown, D. C.*	25 McK.
Hermann Meigs,†	*Pottstown*,	7 M.
Edward Mills, Jr.	*Ulster*,	44 E.
Nathaniel Peasley Moody,	*Asylum*,	Lafayette Park.
Edward Francis Mordough,	*Brooklyn, N. Y.*	2 McK.
Fred Gordon Newton,	*Towanda*,	16 E.
Howard Northrop,	*Canadensis*,	44 Bushkill St.
Barton Pardee,	*Hazleton*,	12 P.
David Gribbon Parish,	*Cynthiana, Ky.*	11 E.
John Jasper Thompson Penney,	*McKeesport*,	24 E.
Howell Terry Pershing,	*Pottsville*,	College Hill.
George Henry Ruggles Plumb,	*Sugar Notch*,	113 Bushkill St.
Arnold Gilmore Plumer,	*Franklin*,	69 Bushkill St.
Samuel Crawford Pomeroy,†	*Academia*,	50 E.
McCluney Radcliff,	*Lewistown*,	47 E.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
James Ramsay,	*Delaware Station, N. J.*	43 E.
Milo Pearson Reagle,	*Mt. Bethel,*	14 E.
Stephen Marion Reynolds,	*Factoryville,*	College Hill.
Harry Vernon Rice,	*Kalamazoo, Mich.*	College Hill.
Wallace Berkeley Riegner,	*Chambersburg,*	57 E.
Blair Webster Roller,	*Williamsburg,*	46 E.
Charles Jennings Savits,	*Easton,*	32 Lehigh St.
Jacob Washington Schwartz,	*Tamaqua,*	12 McK.
Herbert Francis Seip,	*Easton,*	Centre Square.
Minard Shaw,	*McKeesport,*	10 E.
Clifford McCalla Sherron,	*Salem, N. J.*	Bushkill St.
Benjamin Silver,	*Glenville, Md.*	19 E.
John Tinney Skeen,	*Port Deposit, Md.*	2 McK.
Dean Findley Smith,	*Easton,*	Lafayette Park.
Clinton Creveling Snyder,	*Espy,*	60 Bushkill St.
Harry Clinton Steckel,	*Allentown,*	College Hill.
Edwin Thomas,	*Catasauqua,*	New St.
William Garvin Trunkey,	*Franklin,*	69 Bushkill St.
Frank Newcomb Turner,	*Port Carbon,*	68 Bushkill St.
Jacob Peter Uhler,	*Stockertown,*	183 Northampton St.
Richard Marshall Van Horn,	*Hackettstown, N. J.*	62 Bushkill St.
Lewis Rhoades Walters,	*Phœnixville,*	'16 B.
Artemus Crawford Ward,	*Le Roy, N. Y.*	College Hill.
George Miles Wells,	*Easton,*	65 N. 2d St.
Walter Vandegrift Woods,	*McDonough, Del.*	12 McK.
Benjamin Franklin Young,	*Mifflinbury,*	5 McK.
Martin Jacob Youngblood,	*Hackettstown, N. J.*	62 Bushkill St.
Charles McGill Zahniser,	*Sharon.*	18 E.

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SUMMARY.

Resident Graduates		3
Undergraduates,	Seniors	37
	Juniors	40
	Sophomores	91
	Freshmen	109
Total		280

VERMONT	1	WEST VIRGINIA	2	MINNESOTA	1
NEW YORK	11	NORTH CAROLINA	1	MICHIGAN	1
NEW JERSEY	37	KENTUCKY	1	NOVA SCOTIA	1
PENNSYLVANIA	187	OHIO	7	SOUTH AMERICA	1
DELAWARE	4	INDIANA	2	WALES	2
MARYLAND	8	ILLINOIS	2	CUBA	1
DIST. OF COLUMBIA	2	IOWA	2		
VIRGINIA	1	MISSOURI	4		

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 MR. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees, in the presence of His Excellency, Governor Hartranft; the State Superintendent of Education, Hon. J. P. Wickersham, LL.D.; the Synod of Philadelphia, and a great assemblage.* It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand stone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe as well as in this country, were carefully studied, and

* The address delivered at the dedication by Prof. Raymond, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the students of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL. This course is designed to give professional preparation for the location, construction and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY. This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY. This course includes text-book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Course, special attention will be given in the various Departments of Study to the harmony of Science with Revealed Religion.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness' Latin Prose Composition (Part I); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 ⅔); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 30 and 31.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. / Livy. } Elective.
Latin Composition.
Eusebius. / Xenophon, Cyropædia. } Elective.
Classical Geography.

English Composition.
Algebra, Loomis's, (continued.)
Old Testament, in English.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Cyprian. / Livy. } Elective.
Latin Composition.
Eusebius. / Herodotus. } Elective.

Greek Antiquities.
Geometry, Loomis's, (continued.)
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.

THIRD TERM.

Bible in Latin. / Horace. } Elective.
Roman Antiquities.
Greek Testament—Mark.
Greek Composition.

English Composition.
Algebra, (completed.)
Solid Geometry.
New Testament, in English.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Latin Hymns. / Horace. } Elective.
Justin Martyr. / Xenophon, Memorabilia. } Elective.
Greek Composition.

Greek Testament—Acts.
Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Study of Words, Trench.

SECOND TERM.

Augustine. / Cicero, de Oratore. } Elective.
Athenagoras. / Homer, Iliad. } Elective.

Rhetoric.
Archæology of Greek Literature and Art.
Conic Sections, Coffin's.
Greek Testament—Acts.

THIRD TERM.

Greek Hymns. / Homer, Iliad. } Elective.
Greek Testament—Acts.
Archæology of Roman Literature and Art.

French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Descriptive Mechanics.
Theoretical Mechanics.
Thucydides.
Josephus.
} Elective.

Chrysostom.
Demosthenes.
History of Greece.
} Elective.

Cicero, Tusculan Disputations.
Lactantius.
} Elective.

German.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

SECOND TERM.

Physics, (begun.)
Tacitus.
Orosius.
} Elective.

Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.

Constitution of the United States.
Political Philosophy.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Physics, (completed.)
Chemistry, with Laboratory practice.
Greek Tragedies.
Septuagint.
} Elective.
Anglo-Saxon, (continued.)

English, Shakespeare.
Fowler's English Language.
Greek Testament—Romans.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (commenced.)
Botany. Zoölogy.
Anatomy and Physiology.

Juvenal and Persius.
Boethius.
} Elective.
English Literature.
Confession of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology, (commenced.)
Evidences of Christianity.

Mineralogy.
Plato. Modern Languages.
Blackstone.
Chemistry.
Astronomy, (completed)
Hebrew, Green's Grammar.
} Elective.

THIRD TERM.

Greek Harmony of the Gospels.
Latin and Greek Literature.
Comparative Philology.
Geology, (completed.)
Architecture.

History.
French. German.
Chemistry.
Blackstone.
Hebrew, Chrestomathy.
Butler's Analogy.
} Elective.

Throughout the Year —Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued)
Stereotomy, Elementary Drawing.
French.
English, March's Method.
English Composition.
Chemistry, with Laboratory Practice.
Old Testament.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
French.
German.
Chemistry, with Laboratory Practice.
English Composition.
Old Testament.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages.
Mineralogy.
English Composition.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French.
German.
Chemistry, (optional.)
Study of Words, Trench.
English, Bunyan.
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Geometrical and Topographical Drawing.
German.
Botany. Zoölogy.
Rhetoric.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Navigation and Surveying, Loomis's.
Modern Languages.
English, Chaucer.
Chemistry, (optional.)
Botany. Zoölogy.
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French.
English, Bacon.
Chemistry.
Descriptive Geometry. } Elective.

Zoölogy.
Botany.
New Testament Epistles.
Declamations, Themes, and written Debates.

SECOND TERM.

Physics, (begun.)
Shades and Shadows, (optional.)
Colored Topography, (optional.)
Zoölogy.
Botany.
Anglo-Saxon, March's Grammar and Reader.

English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.
Declamations, Themes, and written Debates.

THIRD TERM.

Physics, (completed.)
German.
Anglo-Saxon, (continued.)
Linear Perspective, (optional.)

English, Shakespeare.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (commenced.)
English Literature.
Modern Languages.

Modern Literature.
Anatomy and Physiology.
Confession of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.

Geology. Mineralogy.
Modern Languages.
Astronomy, (completed.)
Chemistry. Blackstone. } Elective.
Evidences of Christianity.

THIRD TERM.

Geology.
Philosophy of Mathematics.
Archæology of Literature. } Elective.
History.

Architecture.
Comparative Philology.
Chemistry. Blackstone.
Modern Languages. } Elective.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's (continued.)	French.
Trigonometry, Loomis's.	Coleman's Biblical Geography.
Stereotomy, Elementary Drawing.	Old Testament, in English.
Chemistry, with Laboratory Practice.	Lectures on Health.
English.	

SECOND TERM.

Mensuration, Loomis's, (commenced.)	Chemistry, with Laboratory Practice.
Surveying, Loomis's.	German, and French
Problems in Division of Land.	Coleman's Biblical Geography.
Drawing, Plane Problems.	Old Testament.

THIRD TERM.

Algebra, (completed.)	French.
Geometry, (completed)	German.
Surveying, Field Work.	Coleman's Biblical Geography.
Geometrical Drawing.	New Testament.

Throughout the Year —Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Mensuration, (completed.)	Mineralogy.
Surveying, Field Work.	French. German.
Geometrical Drawing.	English. Trench on Words.
Chemistry, (optional)	Acts of the Apostles.

SECOND TERM.

Conic Sections.	Mineralogy.
Topographical Drawing.	French. German.
Botany. Zoölogy.	English, Spenser, (optional.)
Chemistry, (optional.)	Acts of the Apostles.

THIRD TERM.

Analytical Geometry.	Determinative Mineralogy.
Differential and Integral Calculus.	French. German.
Descriptive Geometry.	English, Chaucer, (optional.)
Botany. Zoölogy.	Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Descriptive Geometry, (General Orthographic Projections.)
Surveying, Field Work, Adjustment of Instruments.
Zoölogy. Botany.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Hydrographical Surveying.
Geodesy.
Zoölogy. Botany.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
General Theory of Machines.
Astronomy, (optional.)
Mental Philosophy, (optional.)
Modern Languages.
Anatomy and Physiology.
Confession of Faith.

SECOND TERM.

Machinery and Motors.
Machine Drawing.
Stability of Structures.
Supply and Distribution of Water.
Modern Languages.
Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Geology.
Physical Geography.
Evidences of Christianity.

THIRD TERM.

Designs for, and Reviews of Engineering Works.
Stone Cutting.
Stability of Structures.
Philosophy of Mathematics.
Geology.
Natural History, (optional)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
History, (optional.)
Evidences of Christianity.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that Qualitative Analysis in the Freshman and the Sophomore year, is required in place of certain engineering work.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Quantitative Analysis.
Lithology.
Surveying.
Practice with the Blow-pipe.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics.
Colored Topography.
Maps of Surveys.
Quantitative Analysis.
Practice in Lithology.
Modern Languages.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Analytical and Applied Mechanics.
Topographical Surveying.
Map of Topographical Survey.
Quantitative Analysis.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Metallurgy.
Mining.
General Theory of Machines.
Modern Languages.
Confession of Faith.

SECOND TERM.

Quantitative Analysis.
Assaying.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.
Political Economy.
Modern Languages.
Geology.
Mining.
Evidences of Christianity..

THIRD TERM.

Quantitative Analysis.
Metallurgy.
Mine Surveying.
Ore Deposits.
Economic Geology and Paleontology.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Modern Languages.
Evidences of Christianity.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the Course of MINING ENGINEERING AND METALLURGY.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Quantitative Analysis.
Chemical Technology.
Lithology.
Zoölogy. Botany.
Practice with the Blow-Pipe.
French. } Elective.
English. }
Drawing. }
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics. Spectrum Analysis.
Quantitative Analysis.
Chemical Technology.
Practice in Lithology.
New Testament Epistles.
German. } Elective.
English. }
Anglo-Saxon. }
Declamations, Themes, and Extemporaneous Speaking.

THIRD TERM.

Analytical and Applied Mechanics.
Physics.
Chemical Technology.
Quantitative Analysis.
Physical Geography.

English, French, German. } Elective.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Chemical Technology.
Metallurgy.
Volumetric Analysis.
Anatomy and Physiology.

General Theory of Machines.
Physiological Chemistry.
Toxicology.
Modern Languages.
Confession of faith.

SECOND TERM.

Quantitative Analysis.
Chemical Technology.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.

Political Economy.
Modern Languages.
Geology.
Agricultural Chemistry.
Evidences of Christianity.

THIRD TERM.

Quantitative Analysis.
Gas Analysis.
Metallurgy.
Chemical Technology.

Economic Geology and Paleontology.
The Steam Engine.
Modern Languages.
Graduation Theses.
Evidences of Christianity.

Throughout the Year.—Themes and Speaking.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor in that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General Chemistry and Analytic Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytic Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, September 3d, 1873.

II. MINING ENGINEERING.

The SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankments.
Drainage.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 8th, 1874.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and Chemical Properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with Malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is—

General Chemistry.
Qualitative Analysis.
Quantitative Analysis.
Spectrum Analysis.
Volumetric Analysis.
Inorganic Analysis.
Organic Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 3d, 1873, and on Thursday, January 8th, 1874.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

For the course in Christian Latin and Greek, see p. 35.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and *Alexander's Moral Science* are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Professor Barlow gives a comprehensive course of lectures on Elocution to the Freshman Class, which is followed by systematic instruction and training extending through the whole college course. The students of all the classes are carefully prepared by private rehearsals for their weekly speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with

the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Chrysostom, Cicero, Boethius, and Plato, in these relations.

A prize of $200, offered last year by Dr. John Curwen, of Harrisburgh, for the highest standing in the Classical authors of the whole course, was adjudged to J. G. Williamson, Jr.

Course of Christian Latin and Greek.—The Trustees have been enabled, by the munificence of Mr. Benjamin Douglass, to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching will be provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books.

In 1872–3, the following prizes were given for proficiency in this course in the Class of 1876: One of $100 to W. C. Stull; two of $50 to A. Heebner and J. T. Lloyd; two of $25 to J. M. McCahan and O. H. Melcher.

In 1873–4, prizes of the same amount are offered to the Class of 1876, and also to the Class of 1877.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's Unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1872 were examined on Pope. The prize was awarded to James I. Good.—The Class of 1873 were examined on Goldsmith. The prize was awarded to J. G. Williamson, Jr., with honorable mention of S. G. Barnes and W. C. Anderson.—The Class of 1874 will be examined on Washington Irving.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A.B., of the Class of 1871.

In the Class of 1873 it was awarded to S. G. Barnes, and in that of 1874 to J. R. Williams.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1872, offered by the London Society of that name, for the best examination in English before Chaucer, was won by S. G. Barnes of 1873, for the best examination in Beowulf. The same prize for 1873 was won by J. R. Williams of 1874, for the best examination in Caedmon.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun) } See Physics, page 38.
	Third Term.	Physics, (ended) }
SENIOR YEAR.	*First Term.*	Astronomy, (commenced.)
	Second Term.	Astronomy, (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 25 to 29.

Text-books are used as mentioned on pages 21, 22, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In Astronomy they are taught the working of the Observatory.

PRIZES.—Two prizes were founded in this department in 1868. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. In 1870 it was awarded to R. W. D. Bryan, in 1871 to James C. Crawford, in 1872 to Jefferson Snyder, in 1873 to T. C. Galbreath. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1870 to A. Swartz, in 1871 to James I. Good, in 1872 to Nathan Taylor. An equal award of $20 to each was this year made to S. M. Riley, of the Scientific department, and S. L. Stiver of the Classical department; and hereafter a Junior prize of $20 will be given in each department.

PHYSICS.

The studies of this department in the Classical and the General Scientific Courses occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved by new instruments devised or selected by Professor Moore.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 26—29.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. While attending these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 31.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second Term.*	Botany. Zoölogy.
	Third Term.	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Botany.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the Flora of Pennsylvania, which is believed to be the most complete in existence. In GEOLOGY, beside the text-book study, Professor Porter delivers a course of lectures.

In MINERALOGY the classes have the advantage of the instructions of Professor Prime, and of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 27—28.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical department, the degree of BACHELOR OF PHILOSOPHY on graduates of the General Scientific Course.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of BACHELOR OF SCIENCE.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is $6.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or General Scientific Course	$15.00	a term.
Tuition in the Technical Courses, Working Sections	25.00	"
General expense	5.00	"
Library and Reading Room	2.00	"

The annual College charges are therefore for those who pay tuition in full, sixty-six dollars for the Classical or General Scientific Course, and ninety-six dollars in the Technical Courses. There is also a matriculation fee (paid once) of $3, and a fee for diploma at graduation of $6. In 1875, and thereafter, in place of the fees now paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, each student will pay $5 when he is registered on entering college, and $10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made at the beginning of each term's work. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the use of the laboratory and the aid of the Professor in attendance. Each will, of course, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of Board in clubs the past year was from $2.65 to $4.50 per week. Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a

cost of from two to ten dollars a term (average $7.) Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded at the close of the year. Last year the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed $275; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address on Sabbath evening preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday afternoon preceding commencement-day.

LIBRARIES AND READING-ROOM.

The College Library is open Thursday, Friday and Saturday, at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

The EASTONIAN HALL, in the east wing of East College, is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

The College Collections have recently been enriched, through the liberality of the Hon. W. H. KEMBLE, of Philadelphia, by a large and very choice collection of minerals, comprising the best selections from the cabinet of the Rev. Dr. BEADLE, of Philadelphia, the result of his enthusiastic and arduous labors for thirty years in collecting.

Mr. KEMBLE has also presented to the College a fine collection of Northern antiquities, a large collection of corals, containing many unique specimens, a large collection of marine, fresh water, and land shells, and a valuable collection of fossils from the silurian, lias, and other formations, containing a fine series of ammonites, some remarkable tribolites and crinoids. These collections also comprise the choicest specimens from the large cabinet of Dr. BEADLE.

The Herbarium has been largely increased by a number of collections, made chiefly in the Rocky Mountain region and California.

Valuable contributions to the mineralogical and metallurgical collections have also been made by DAVID THOMAS, Dr. H. DETWILLER, O. J. HEINRICH, JOSEPH HUNT, H. T. LILLIENDAHL, and J. C. KENT.

The Chemical Department has received a suite of graphites and manufactured products, from DIXON CRUCIBLE COMPANY; and emery grinder and wheels from the TANNITE COMPANY.

Important gifts to the Library have been received from Senator CAMERON, the INDUSTRIAL LEAGUE, Dr. JOHN CURWEN, Dr. J. M. JUNKIN, Prof. B. PIERCE, the SMITHSONIAN INSTITUTION, the UNITED STATES BUREAU OF EDUCATION, Dr. J. C. HEPBURN, Dr. M. PAINE, the TRUSTEES OF FREDERICK GRIMKE, ANTHONY IHRIE, ESQ., and JOHN A. SMULL, Esq. Rev. J. B. GROSS has lately made a donation of 160 volumes, mostly German theological works.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of early English texts.

In the departments of Acoustics, Optics, Electricity, and Graphics, the amount of apparatus has been largely increased by recent purchases.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1874–1875.

WITH THE COURSES OF STUDY.

All communications for the LAW SCHOOL, or applications for Circulars, should be addressed to

HON. WILLIAM S. KIRKPATRICK,
DEAN of the Law Department, Lafayette College,
Easton, Pennsylvania.

EASTON, PA.
1875.

The Herbarium has been largely increased by a number of collections, made chiefly in the Rocky Mountain region and California.

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CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1874–1875.

WITH THE COURSES OF STUDY.

EASTON, PA.
1875.

COLLEGE CALENDAR.

1874.

September 4, Thursday.—First term began.
December 24, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1875.

January 7, Thursday.—Second term began.
January 28, Thursday.—Day of Prayer for Colleges.
February 22, Monday.—Anniversary of the Washington Literary Society.
March 23, Tuesday.—Junior Prize Speaking.
March 24, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 8, Thursday.—Third term begins.
June 14—16.—Final Examination of the Senior Class.
June 24—28.—Examination of the lower classes.
June 27, Sunday, A. M.—Baccalaureate Sermon.
June 27, Sunday, P. M.—Sermon before the Brainerd Missionary Society.
June 28, Monday.—Senior Class Day and Concert.
June 29, Tuesday, A. M.—Reunion Meetings of the Literary Societies.
June 29, Tuesday, P. M.—Meeting of the Alumni Association.
June 29, Tuesday Evening.—Oration before the Literary Societies.
June 30, Wednesday.—Commencement Exercises.
July 1, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

August 31—September 1, Tuesday and Wednesday.—Examinations for admission.
September 2, Thursday.—First term begins.
November 26, Friday.—Anniversary of Franklin Literary Society.
December 22, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1876.

January 6, Thursday.—Second term begins.
March 22, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

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ASSISTANT IN CHEMISTRY.

WM. H. WEAVER, Janitor.

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STUDENTS.

REFERENCES.

South College, S.—East Hall, E.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powell Hall, P.—McKeen Hall, McK.—Special Course, †

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Clay Kemble, B.S., Philadelphia.	Lafayette, 1874. Spring Garden St.	Civil Engineering.
Thomas Clemence Moffat, A.B., Wheaton, Ill.	Wheaton Coll., 1873. 127 Cattell St.	Philology.
Israel Platt Pardee, M.E., Hazleton.	Lafayette, 1874. Spring Garden St.	Chemistry.
Ethan Allen Weaver, C.E., Easton.	Lafayette, 1874. 6 Newkirk Hall.	Chemistry.

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NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	*Mount Pleasant, N. J.*,	339 Bushkill.
Henry Brinton Buckwalter,	*West Chester*,	13 S.
Henry Scarborough Carey,	*Taylorsville*,	24 S.
Robert Henderson Carothers,	*Olivet*,	34 S.
Thomas Craig,	*Pittston*,	58 S.
Jesse Van Auken Craighead,	*New York City*,	10 M.
John William Creveling,	*Bloomsbury, N. J.*,	11 McK.
William Walter Dale,	*Franklin*,	27 McK.
Andrew Fine Derr,	*Wilkes Barre*,	9 McK.
Montgomery Evans,	*Limerick Station*,	23 McK.

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Willis Stanley Hetrick,	*Easton*,	18 McK.
James Henry Hicks,	*Wyoming*,	49 S.
Zacharias Christman Hoch,	*Kutztown*,	11 N.
Joseph Ellis Hoffman,	*Danville*,	35 S.
Herbert Hallet Jackson,	*Brooklyn, N. Y.*,	34 S.
Nicholas Henry Larzelere,	*Whitehallville*,	23 McK.
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David Williamson Nevin,	*Shippensburg*,	245 Bushkill St.
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Albert Andrews Richards,	*Buck Valley*,	13 B.
Richard Anderson Roberts,	*New York City*,	48 S.
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Lewis Burd Walker,	*Pottsville*,	6 M.

SENIORS.....35.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Isaac Oakford Acton,	*Salem, N. J.*,	20 McK.
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Milton Rothrock Alexander,	*Lewistown*,	47 S.
Clarence Newton Andrews,	*Easton*,	340 Spring Garden St.
Joseph Howell Andrews,	*Phillipsburg, N. J.*,	43 S.
George Albert Angle,	*Roxburg, N. J.*,	9 M.
James Bacon,	*Osceola*,	4 McK.
Isaac Barber,	*Phillipsburg, N. J.*,	1 P.
Allen Peter Berlin,	*Cherryville*,	8 McK.
Samuel Austin Besson,	*Everettstown, N. J.*,	24 N.
Charles Welles Bixby,	*Wyalusing*,	26 McK.
Maynard Bixby,	*Wyalusing*,	26 McK.
Silas Belden Brown,	*May's Landing, N. J.*,	5 McK.
John Alfred Buchanan,	*Honeybrook*,	13 P.
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John Waugh Clendenin,	*Mechanicsburg*,	11 M.
Wilking Britton Cooley,	*Easton*,	206 Northampton St.
John Alexander Covode,	*Chambersburg*,	11 M.
William Franklin Dannehower,	*Tylersport*,	22 McK.
Harry Emmons,	*Wilmington, Del.*,	2 McK.
William Thomas Fee,	*Franklin*,	28 McK.
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John Slough Freeman,	*Centre Point*,	22 S.
John Bennett Fuller,	*Montoursville*,	36 S.
John Torrey Fuller,	*Wilkes Barre*,	10 McK.
James Gayley,	*Colora, Md.*,	5 McK.
Jacob Bruner Graham,	*Honeybrook*,	13 P.
Henry Lewis Griffis,	*Montrose*,	N. 2d St.
Frank Graham Harris,	*Glen Hope*,	19 McK.
Thomas Abraham Horn Hay,	*Easton*,	341 Northampton St.
John King Hays, Jr.,	*Williamsport*,	21 S.
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John Burke Hendry,	*Easton*,	1 E.
Charles Christopher Henschen, Jr.,	*Baltimore, Md.*,	22 N.
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Forrest Hulings,	*Emlenton*,	14 McK.
Willis Martin Hunt,	*Clarksville, N. J.*,	10 P.
John Coleman Irwin,	*Indiana*,	9 M.

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Jackson Perry Keeney,	*Towanda*,	44 S.
John Franklin Keller, †	*Lancaster*,	32 S.
Alexander Lowry Kinkead,	*Hollidaysburg*,	46 S.
Henry Reichenbach Kraber, †	*York*,	243 Bushkill St.
Edwin Houston Lamberton,	*Franklin*,	27 McK.
Asa Leard,	*Cowansville*,	14 M.
Thomas William Leard,	*Cowansville*,	14 M.
Arthur Coffin Logan,	*Scranton*,	11 P.
Harry Vannuys Logan,	*Scranton*,	11 P.
Grover Stout Lowe,	*Somerville, N. J.*,	9 N.
Alvin Theodore Ludwig,	*Allentown*,	29 B.
John Moore McCahan,	*Burkeville, Va.*,	14 B.
Oliver Campbell McClure,	*Thurlow*,	21 B.
William Henry McCurdy,	*Slate Hill*,	45 S.
William Cummins McKnight, †	*Chambersburg*,	45 S.
Abram McMurtrie,	*Belvidere, N. J.*,	20 McK.
Henry Stephen Magraw,	*Colora, Md.*,	———
John Stockton Marquis,	*Dunningsville*,	20 S. C.
William Andrew May,	*Williamsport*,	19 McK.
Oliver Hoffman Melcher,	*Kintnersville*,	20 B.
Henry Daniel Michler,	*Easton*,	Lafayette Park.
James Monahan,	*Sedalia, Mo.*,	17 N.
Samuel Black Neilson,	*New Bloomfield*,	23 N.
Clearfield Park,	*Bloomsbury, N. J.*,	24 McK.
Edward Peacock,	*Lancaster*,	14 P.
William Lewis Plack, †	*Altoona*,	1 McK.
John Porter,	*Easton*,	Prof. Porter's.
Henry Emery Raesly,	*Mount Bethel*,	14 S.
George Montgomery Rea, †	*Hackettstown, N. J.*,	243 Bushkill St.
Russell B. Rice,	*Perrysville, Ohio*,	12 N.
James Reese Schick, †	*Easton*,	43 N. 4th St.
Nicholas Irwin Scott, †	*Twenty-Mile Stand, Ohio*,	6 McK.
John Jay Serfass, †	*Easton*,	465 Northampton St.
Wyn Reeves Sewell,	*Allegheny*,	8 M.
Cyrus Lee Stevens,	*Stevensville*,	23 E.
William Clark Stull,	*Milford, N. J.*,	22 S.
Israel Henry Supplee, †	*West Haverford*,	12 McK.
John Bascom Taylor,	*Wyalusing*,	24 McK.
Victor Piollet Wierman,	*Harrisburg*,	10 McK.

JUNIORS.....79.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Charles Baeder Adamson,†	*Philadelphia*,	12 P.
John Bell Alexander,	*Lewistown*,	47 S.
William John Alexander,	*East Liberty*,	10 S.
Walter Lowrie Alexander,	*Moundsville, W. Va.*,	9 P.
John Hays Allen, Jr.,	*Montoursville*,	36 S.
William Edgar Baker,	*Elizabeth, N. J.*,	N. 3d St.
Charles Heath Bannard,	*Salem, N. J.*,	12 M.
Edwin Clark Beers,	*Phillipsburg, N. J.*,	43 S.
Joseph Edward Bimm,	*Dayton, Ohio*,	12 McK.
James Wilson Bright,	*Lock Haven*,	23 S.
Asher Davidson Bubb,	*Antes Fort*,	31 S.
Jacob Pennypacker Buckwalter,	*Schwenksville*,	27 S.
Robert Williams Clark,†	*Chambersburg*,	57 S.
Harold Clemens,	*Easton*,	435 Northampton St.
John Wesley Codding,	*Towanda*,	1 P.
Robert Gilson Craighead,†	*Dayton, Ohio*,	12 McK.
Thomas Roney Crowell,	*Odessa, Md.*,	232 Bushkill St.
George Palmer Curtis,	*Hackettstown, N. J.*,	132 N. 4th St.
Rufus Darr,	*Jacob's Creek*,	15 E.
David Duncan Davidson,	*Warren*,	12 B.
John Russell Dickson,	*Hunterstown*,	221 Northampton St.
Ferdinand Van Derveer Dilks,	*Somerville, N. J.*,	43 N. 4th St.
Casper Dull,†	*Harrisburg*,	6 McK.
Edward Mortimer Earle,	*Catasauqua*,	25 McK.
Mervin Johnson Eckels,	*New Kingston*,	221 Northampton St.
Charles Henry Edgar,	*Elizabeth, N. J.*,	58 S.
Albert Cecil Fairchild,	*Newark, N. J.*,	43 N. 4th St.
Edwin John Farber,	*Baltimore, Md.*,	18 E.
Thomas Chalmers Ferguson,	*Bordentown, N. J.*,	Cattell St.
Howard Mervin Fisher,	*Elkview*,	21 E.
Robins Fleming,†	*Readington, N. J.*,	825 Walnut St.
Frank M. Fuller,†	*Uniontown*,	221 Northampton St.
James Wesley Gilland,	*Shady Grove*,	27 S.
James Tracy Hale,	*Towanda*,	7 P.
Alexander Hamilton,	*Johnstown*,	30 S.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Russell B. Harrison,	*Indianapolis, Ind.*,	214 Bushkill St.
Abraham Hogeland,	*Doylestown*,	28 S.
Albert Harrison Hogeland,	*Davisville*,	28 S.
Andrew Porter Huey,	*Airy Dale*,	28 McK.
Henry Clay Hunt, †	*Blairstown, N. J.*,	4 E.
Charles Paxton Knapp, †	*Wilkes Barre*,	244 Bushkill St.
John McFarland Leech,	*Saltsburg*,	31 S.
Charles Franklin Lewis,	*Knowlesville, N. Y.*,	26 N. 3d St.
Ellis Reuben Lichtenwallner,	*Allentown*,	McCartney St.
Edward Wack Long,	*Philadelphia*,	50 S.
Simon Cameron Long,	*Pine Grove*,	13 M.
Henry McCollum,	*Chester*,	15 B.
Henry Mahn McIntire,	*Easton*,	1136 Washington St.
Gilbert N. Marshall, Jr.,	*New York City*,	232 Bushkill St.
Samuel Albert Martin,	*Canonsburg*,	20 S.
Clifton Mayfield,	*Georgetown, D. C.*,	25 McK.
Edward Mills, Jr.,	*Ulster*,	44 S.
Francis Hardy Moore,	*Philadelphia*,	202 Bushkill St.
Edward Francis Mordaugh,	*Brooklyn, N. Y.*,	3 E.
Frederick Gordon Newton,	*Towanda*,	16 S.
Barton Pardee,	*Hazleton*,	12 P.
James Lawson Patterson, †	*Savannah, Ohio*,	38 S.
William Hart Patterson,	*Columbia, S. C.*,	21 S.
Howard Terry Pershing,	*Pottsville*,	60 S.
George Henry Ruggles Plumb,	*Sugar Notch*,	21 McK.
Arnold Gilmore Plumer,	*Franklin*,	12 E.
McCluney Radcliff,	*Lewistown*,	23 S.
Milo Pearson Reagle,	*Mount Bethel*,	14 S.
Stephen Marion Reynolds,	*Factoryville*,	19 S.
Harry Vernon Rice,	*Kalamazoo, Mich.*,	123 McCartney St.
Wallace Berkley Riegner,	*Chambersburg*,	57 S.
James Boyd Risk,	*Philadelphia*,	7 McK.
Blair Webster Roller,	*Williamsburg*,	———
Jacob Washington Schwartz,	*Tamaqua*,	15 McK.
Harry Omar Scott,	*Confluence*,	15 E.
Herbert Francis Seip, †	*Easton*,	Centre Square.
Clifford McCalla Sherron, †	*Salem, N. J.*,	10 M.
John Cresswell Shumaker,	*Chambersburg*,	14 P.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Benjamin Silver,	*Glenville, Md.,*	21 N.
John Tinney Skeen,†	*Port Deposit, Md.,*	200 McCartney St.
Clinton Creveling Snyder,	*Espy,*	43 N. 4th St.
James Todd, Jr.,	*Indiana,*	23 McK.
William Garvin Trunkey,	*Franklin,*	10 P.
Frank Newcomb Turner,	*Port Carbon,*	18 McK.
Jacob Peter Uhler,	*Stockertown,*	Northampton St.
Richard Marshall Van Horn,	*Hackettstown, N. J.,*	4 McK.
Lewis Rhoads Walters,	*Phœnixville,*	13 M.
Artemus Crawford Ward,	*Le Roy, N. Y.,*	30 S.
George Miles Wells,	*Easton,*	11 McK.
Martin Jacob Youngblood,	*Hackettstown, N. J.,*	Bushkill St.
Charles McGill Zahniser,	*Sharon,*	243 Bushkill St.

SOPHOMORES.....86.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
James Arnold Aiman,	*Flourtown,*	16 E.
William Atkinson Alderson,	*St. Charles, Mo.,*	19 E.
Edward Damon Allen,	*Franklin,*	6 E.
Horace Beemer Ayres,	*Allamuchy, N. J.,*	7 E.
Park Edwards Bell,	*Pittsburg,*	214 Bushkill St.
Hervey Winthrop Beymer,	*Pittsbury,*	221 Northampton St.
Frederick Miller Bouton,†	*Scranton,*	7 E.
Walter James Bradshaw,	*Indianapolis, Ind.,*	136 N. 2d St.
Andrew Scott Brown,	*Erie,*	125 N. 3d St.
John Charles Churchill, Jr.,	*Oswego, N. Y.,*	5 E.
Thomas Culbertson Clark,	*Martin's Ferry, O.,*	202 Bushkill St.
Alexander Cathcart Coble,	*Carlisle,*	221 Northampton St.
William Gates Coffin,	*Deposit, N. Y.,*	16 S.
William Alexander Cox, Jr.,	*Shippensburg,*	323 Spring Garden St.
John Davidson Dorris,	*Huntingdon,*	17 McK.
John Jacoby Dungan,	*Flourtown,*	8 E.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Joseph Edward Durham,	*Dewart*,	8 P.
John Robert Eaton,	*Archbald*,	49 S.
Alexander Elliott, Jr.,	*Dover, N. J.*,	22 E.
John Seneca Ely,	*Doylestown*,	2 E.
John Kennedy Ewing, Jr.,	*Uniontown*,	14 E.
Benj. Franklin Fackenthall, Jr.,†	*Durham*,	Durham.
Wallace Henderson Falls,	*New Castle*,	221 Northampton St.
Charles Forney,	*Lebanon*,	5 E.
Edward Fox,	*Easton*,	1 E.
Stewart Fullerton,	*Philadelphia*,	16 E.
John Gilmore,	*Uniontown*,	14 E.
Edwin Schere Glanz,	*Easton*,	South 3d St.
John Oscar Glase,	*Oley*,	10 E.
James Johnson Grant,	*Navarre, Ohio*,	38 S.
Charles Cooper Griffith,	*Brady*,	18 E.
Jacob Koch Griffith,	*Pittston*,	202 Cattell St.
Robert Hugh Hamill,	*Boalsburg*,	12 E.
Naudain Hamilton,	*Harrisburg*,	300 Bushkill St.
Edgar Hart,	*Pennington, N. J.*,	232 Bushkill St.
Samuel S. Hartranft,	*Harrisburg*,	11 Centre Square.
William Justice Hayes,	*Erie*,	13 E.
John Clemson Hazard,	*Mauch Chunk*,	232 Bushkill St.
Charles Heebner,	*Port Carbon*,	8 P.
John Herron, Jr.,	*Dehra, India*,	113 McCartney St.
Charles Merrill Hileman,	*Pittston*,	202 Cattell St.
Lewis Ahrens Hoffman,	*Reading*,	51 S.
James Renwick Hogg,	*Philadelphia*,	2 McK.
Edward Everett Hoyt,	*Kingston*,	16 N. 3d St.
Torrence Huffman,†	*Dayton, Ohio*,	22 E.
James D. Hunter,†	*Savannah, Ohio*,	202 Cattell St.
Randolph Clark Hyatt,	*Georgetown, D. C.*,	22 E.
Charles Collingwood Jennings, Jr.,	*Easton*,	39 South 2d St.
Thomas Glover Johns,	*St. Charles, Mo.*,	21 E.
Jacob Miley Jones,	*Harrisburg*,	464 Northampton St.
Richard Armstrong Kennedy,†	*Tarentum*,	123 North 3d St.
William Scott Kerr,	*Saltsburg*,	23 E.
Frank Delmar Kinnear,	*Franklin*,	8 E.
Harry Knecht,	*Easton*,	25 South 5th St.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Edward West Lyon,	*Sligo*,	129 Cattell St.
Frank Hastings McArthur,	*Sharon*,	359 Bushkill St.
William Quincy McGee,	*Cairo, Illinois*,	113 McCartney St.
Herbert McIntosh, †	*Doylestown*,	2 E.
Edward Arthur McLaury,	*Monticello, N. Y.*,	18 B.
David Adrian McLeod,	*High Bridge, N. Y.*,	3 E.
Charles Archy McSparren,	*Erie*,	13 E.
Curtis Q. McWilliams,	*Shamokin*,	237 Bushkill St.
James Cameron Mackenzie,	*Wilkes Barre*,	3 McK.
Charles Dinsmore Marvin,	*Erie*,	125 North 3d St.
Robert James Mason,	*Mercer*,	12 S.
William Newton Mateer,	*Shippensburg*,	323 Spring Garden St.
Guyon Miller,	*Coatesville*,	50 S.
Henry Millholland,	*Reading*,	Lafayette Park.
Joshua Lewis Miner,	*Wilkes Barre*,	3 McK.
Charles Newton,	*Nicholson*,	12 S.
Aaron Willard Nicholas,	*Mendham, N. J.*,	11 E.
Charles Thomas Officer,	*Council Bluffs, Iowa*,	216 McCartney St.
Cyrus Simpson Pershing,	*Pittsburg*,	60 S.
George Washington Phillips,	*Hyde Park*,	12 S.
Lewis John Rader,	*Easton*,	133 South 6th St.
James Ramsay,	*Delaware Station*,	1 P.
Alexander Burton Randall,	*Annapolis, Md.*,	6 P.
Charles Michler Ray,	*Washington, D.C.*,	245 Bushkill St.
James Mitchell Reese,	*Phillipsbury, N. J.*,	1 P.
Charles Bement Riggs,	*Elmira, N. Y.*,	11 E.
Alexander H. Roberts,†	*Harrisburg*,	17 E.
George Redsecker Ross,	*Lebanon*,	464 Northampton St.
George Washington Sandt,	*Easton*,	Cattell St.
Horace Daniel Sassaman,	*Erwinna*,	36 South 4th St.
Arch Tanner Scofield,	*Warren*,	8 M.
Joshua Rogers Serfass,	*Easton*,	453 Northampton St.
Edward Richard Shaw,	*Bellport, L. I.*,	19 E.
William Lesley Sheafer,	*Pottsville*,	59 S.
George Vernon Sheffield,	*Newburg, N. Y.*,	21 S.
John Franklin Sheppard,	*Bridgeton, N. J.*,	210 McCartney St.
John Maxwell Sherrerd,	*Belvidere, N. J.*,	113 Northampton St.
Harry Addis Smith,	*Richboro*,	6 E.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Henry Snyder,	*Easton*,	44 South 7th St.
Samuel Alexander Soxman,	*Congruity*,	20 E.
Alexander Ramsey Speel,	*St. Paul, Minn.*,	300 Bushkill St.
John Stengelin, Jr.,	*Easton*,	125 South 3d St.
Russell Chidsey Stewart,	*Easton*,	18 B.
George Washington Stout, Jr.,	*Easton*,	159 Ferry St.
William Broadwell Sullivan,	*Dayton, Ohio*,	339 Bushkill St.
Kuzuma Takasu,	*Tokio, Japan*,	43 North 4th St.
John Charles Temple, †	*Dayton, Ohio*,	123 N. 3d St.
Uji Taka Toda,	*Tokio, Japan*,	26 North 3d St.
Marcus Calvin Turner,	*Batavia, N. Y.*,	McCartney St.
John Van Meter,	*Canonsburg*,	17 B.
Francis Eugene Wade,	*Hackettstown, N. J.*	43 N. 4th St.
Edwin Teel Walker,	*Strasburg*,	20 E.
Alexander Bowman Weaver,	*Clearfield*,	Cattell St.
Harry Wallace Webber,	*Altoona*,	19 McK.
Barge Christopher Weidman,	*Lebanon*,	206 Spring Garden St.
Bard Wells,	*Pottsville*,	11 McK.
William Dana Wheeler,	*Oswego, N. Y*,	202 Bushkill St.
John Fremont Williamson,	*Sidney, N. J.*,	18 B.
Oliver Russell Wood,	*Martin's Ferry, O.*,	202 Bushkill St.
George Franklin Pierce Young,	*Klecknersville*,	56 S.
Thomas Oscar Young,	*Klecknersville*,	56 S.

FRESHMEN.....115.

SUMMARY.

	Resident Graduates	4
Undergraduates,	Seniors	35
	Juniors	79
	Sophomores	86
	Freshmen	115
	Total	319

NEW YORK	17	OHIO	13	MISSOURI	4
NEW JERSEY	38	WEST VIRGINIA	2	MICHIGAN	1
PENNSYLVANIA	217	SOUTH CAROLINA	1	MINNESOTA	1
DELAWARE	1	INDIANA	4	BRAZIL	1
MARYLAND	9	ILLINOIS	2	JAPAN	2
DIST. OF COLUMBIA	3	IOWA	1	INDIA	1
VIRGINIA	1				

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 MR. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees, in the presence of His Excellency, Governor Hartranft; the State Superintendent of Education, Hon. J. P. Wickersham, LL.D.; the Synod of Philadelphia, and a great assemblage.* It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sandstone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe as well as in this country, were carefully studied, and

* The address delivered at the dedication by Prof. Raymond, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the studies of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL. This course is designed to give professional preparation for the location, construction and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY. This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY. This course includes text-book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavored to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Course, special attention will be given in the various Departments of Study to the harmony of Science with Revealed Religion.

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness' Latin Prose Composition (Part I.); Xenophon's Anabasis;* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 pp.); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Technical Courses.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 30 and 31.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

* The Greek Reader will be accepted for the Anabasis.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Xenophon, Cyropædia. }
Classical Geography.

English Composition.
Algebra, Loomis's, (continued.)
Old Testament, in English.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Cyprian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Herodotus. }

Greek Antiquities.
Geometry, Loomis's, (continued.)
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.

THIRD TERM.

Bible in Latin. } Elective.
Horace. }
Roman Antiquities.
Greek Testament—Mark.
Greek Composition.

English Composition.
Algebra, (completed.)
Solid Geometry.
New Testament, in English.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Latin Hymns. } Elective.
Horace. }
Justin Martyr. } Elective.
Xenophon, Memorabilia. }
Greek Composition.

Greek Testament—Acts.
Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Study of Words, Trench.

SECOND TERM.

Augustine. } Elective.
Cicero, de Oratore. }
Athenagoras. } Elective.
Homer, Iliad. }

Rhetoric.
Archæology of Greek Literature and Art.
Conic Sections, Coffin's.
Greek Testament—Acts.

THIRD TERM.

Greek Hymns. } Elective.
Homer, Iliad. }
Greek Testament—Acts.
Archæology of Roman Literature and Art.

French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Descriptive Mechanics.
Theoretical Mechanics. } Elective.
Thucydides. }
Josephus. }
Chrysostom. }
Demosthenes. } Elective.
History of Greece. }

Cicero, Tusculan Disputations. } Elective.
Lactantius. }
German.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

SECOND TERM.

Tacitus. } Elective.
Orosius. }

Physics, (begun.)
Constitution of the United States.

Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.

Political Philosophy.
Greek Testament—Romans.
Declamations, Themes, and written Debates.

THIRD TERM.

Physics, (completed.)
Chemistry, with Laboratory practice.
Greek Tragedies. } Elective.
Septuagint. }
Anglo-Saxon, (continued.)

English, Shakespeare.
Fowler's English Language.
Greek Testament—Romans.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoölogy.
Anatomy and Physiology.

Juvenal and Persius. } Elective.
Boethius. }
English Literature.
Confession of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology, (commenced.)
Evidences of Christianity.

Mineralogy.
Plato. Modern Languages. }
Blackstone. }
Chemistry. } Elective.
Astronomy, (completed.) }
Hebrew, Green's Grammar. }

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective.
Philosophy of Mathematics. }
Comparative Philology.
Geology, (completed.)
Architecture.

History.
French. German. }
Chemistry. } Elective.
Blackstone. }
Hebrew, Chrestomathy. }
Butler's Analogy.

Throughout the Year—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Stereotomy, Elementary Drawing.
French.
English, March's Method.
English Composition.
Chemistry, with Laboratory Practice.
Old Testament.
Coleman's Biblical Geography.
Lectures on Health.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
French.
German.
Chemistry, with Laboratory Practice.
English Composition.
Old Testament.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages.
Mineralogy.
English Composition.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French.
German.
Chemistry, (optional.)
Study of Words, Trench.
English, Bunyan.
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Geometrical and Topographical Drawing.
German.
Botany. Zoölogy.
Rhetoric.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Navigation and Surveying, Loomis's.
Modern Languages.
English, Chaucer.
Chemistry, (optional.)
Botany. Zoölogy.
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French.
English, Bacon.
Chemistry.
Descriptive Geometry.
} Elective.

Zoölogy.
Botany.
New Testament Epistles.
Declamations, Themes, and written Debates.

SECOND TERM.

Physics, (begun.)
Shades and Shadows, (optional.)
Colored Topography, (optional.)
Zoölogy.
Botany.
Anglo-Saxon, March's Grammar and Reader.

English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.
Declamations, Themes, and written Debates.

THIRD TERM.

Physics, (completed.)
German.
Anglo-Saxon, (continued.)
Linear Perspective, (optional.)

English, Shakespeare.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
English Literature.
Modern Languages.

Modern Literature.
Anatomy and Physiology.
Confession of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Evidences of Christianity.

Geology. Mineralogy.
Modern Languages.
Astronomy, (completed.)
Chemistry. Blackstone.
} Elective.

THIRD TERM.

Geology.
Philosophy of Mathematics.
Archæology of Literature.
} Elective.
History.
Architecture.

Comparative Philology.
Chemistry. Blackstone.
Modern Languages.
} Elective.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's (continued.)
Trigonometry, Loomis's.
Stereotomy, Elementary Drawing.
Chemistry, with Laboratory Practice.
English.
French.
Coleman's Biblical Geography.
Old Testament, in English.
Lectures on Health.

SECOND TERM.

Mensuration, Loomis's, (commenced.)
Surveying, Loomis's.
Problems in Division of Land.
Drawing, Plane Problems.
Chemistry, with Laboratory Practice.
German.
Coleman's Biblical Geography.
Old Testament.

THIRD TERM.

Algebra, (completed.)
Geometry, (completed.)
Surveying, Field Work.
Geometrical Drawing.
French.
German.
Coleman's Biblical Geography.
New Testament.

Throughout the Year —Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Mensuration, (completed.)
Surveying, Field Work.
Geometrical Drawing.
Chemistry, (optional.)
Mineralogy.
French. German.
English. Trench on Words.
Acts of the Apostles.

SECOND TERM.

Conic Sections.
Topographical Drawing.
Botany. Zoölogy.
Chemistry, (optional.)
Mineralogy.
French. German.
English, Spenser, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoölogy.
Determinative Mineralogy.
French. German.
English, Chaucer, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Descriptive Geometry, (General Orthographic Projections.)
Surveying, Field Work, Adjustment of Instruments.
Zoölogy. Botany.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Hydrographical Surveying.
Geodesy.
Zoölogy. Botany.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
General Theory of Machines.
Machine Drawing.
Astronomy, (optional.)
Mental Philosophy, (optional.)
Modern Languages.
Anatomy and Physiology.
Confession of Faith.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Stability of Structures.
Supply and Distribution of Water.
Modern Languages.
Mental Philosophy, (optional.)
Political Economy.
Astronomy, (optional.)
Geology.
Physical Geography.
Evidences of Christianity.

THIRD TERM.

Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Stability of Structures.
Philosophy of Mathematics, (optional.)
Geology.
Natural History, (optional.)
English Literature, (optional.)
Modern Languages.
Comparative Philology, (optional.)
History, (optional.)
Evidences of Christianity.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that Qualitative Analysis in the Freshman and the Sophomore year, is required in place of certain engineering work.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Quantitative Analysis.
Lithology.
Surveying.
Practice with the Blow-pipe.
Modern Languages.
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics.
Colored Topography.
Maps of Surveys.
Quantitative Analysis.
Practice in Lithology.
Modern Languages.
English, Anglo-Saxon, (optional.)
New Testament Epistles.
Declamations and Themes.

THIRD TERM.

Analytical and Applied Mechanics.
Topographical Surveying.
Map of Topographical Survey.
Quantitative Analysis.
Modern Languages.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Metallurgy.
Mining.
General Theory of Machines.
Modern Languages.
Confession of Faith.

SECOND TERM.

Quantitative Analysis.
Assaying.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.
Political Economy.
Modern Languages.
Geology.
Mining.
Evidences of Christianity.

THIRD TERM.

Quantitative Analysis.
Metallurgy.
Mine Surveying.
Ore Deposits.
Economic Geology and Paleontology.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Modern Languages.
Evidences of Christianity.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the Course of MINING ENGINEERING AND METALLURGY.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Quantitative Analysis.
Chemical Technology.
Lithology.
Zoölogy. Botany.
Practice with the Blow-Pipe.
French. } Elective.
English. }
Drawing. }
New Testament Epistles.
Declamations and Themes.

SECOND TERM.

Physics. Spectrum Analysis.
Quantitative Analysis.
Chemical Technology.
Practice in Lithology.
New Testament Epistles.
German. } Elective.
English. }
Anglo-Saxon. }
Declamations, Themes, and Extemporaneous Speaking.

THIRD TERM.

Analytical and Applied Mechanics.
Physics.
Chemical Technology.
Quantitative Analysis.
Physical Geography.
English, French, German. } Elective.
New Testament Epistles.
Declamations, Themes, and Extemporaneous Speaking.

SENIOR YEAR.

FIRST TERM.

Quantitative Analysis.
Chemical Technology.
Metallurgy.
Volumetric Analysis.
Anatomy and Physiology.
General Theory of Machines.
Physiological Chemistry.
Toxicology.
Modern Languages.
Confession of Faith.

SECOND TERM.

Quantitative Analysis.
Chemical Technology.
Metallurgy.
Strength of Materials.
General Theory of Machines.
Machine Drawing.
Political Economy.
Modern Languages.
Geology.
Agricultural Chemistry.
Evidences of Christianity.

THIRD TERM.

Quantitative Analysis.
Gas Analysis.
Metallurgy.
Chemical Technology.
Economic Geology and Paleontology.
The Steam Engine.
Modern Languages.
Graduation Theses.
Evidences of Christianity.

Throughout the Year.—Themes and Speaking.

POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor in that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or of Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General and Analytical Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytical Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them, with drafts, are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, September 3d, 1874.

II. MINING ENGINEERING.

THE SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankments.
Drainings.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 7th, 1875.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and chemical properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with Malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is—

General Chemistry.
Qualitative Analysis.
Quantitative Analysis.
Spectrum Analysis.
Volumetric Analysis.
Organic Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 3d, 1874, and on Thursday, January 7th, 1875.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

For the course in Christian Latin and Greek, see page 35.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and *Alexander's Moral Science* are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Professor Barlow gives a comprehensive course of lectures on Elocution to the Freshman Class, which is followed by systematic instruction and training extending through the whole college course. The students of all the classes are carefully prepared by private rehearsals for their weekly speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with

the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Chrysostom, Cicero, Boethius, and Plato, in these relations.

Course of Christian Latin and Greek.—The Trustees have been enabled by the munificence of Mr. Benjamin Douglass to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching are provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books. About $1000 has been expended for the increase of the Library in this department during the past year, and a series of Text-books is in course of publication.

In 1872–3, the following prizes were given for proficiency in this course in the Class of 1876; one of $100 to W. C. Stull; two of $50 to A. Heebner and J. T. Lloyd; two of $25 to J. M. McCahan and O. H. Melcher.

In 1873–4, prizes were given in the Sophomore class to W. C. Stull $100; to J. M. McCahan, A. Heebner and O. H. Melcher $50 each; in the Freshman class to H. McCollum $100; to F. N. Turner and E. W. Long $50 each; to J. T. Skeen and E. F. Mordough $25 each.

In 1874–5, similar prizes are offered to the Junior, Sophomore and Freshman Classes.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's Unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL.D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1873 were examined on Goldsmith. The prize was awarded to J. G. Williamson, Jr., with honorable mention of S. G. Barnes and W. C. Anderson. The Class of 1874 were examined on Washington Irving. The prize was awarded to John R. Williams. The Class of 1875 will be examined on Longfellow.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A.M., of the Class of 1871.

In the Class of 1873 it was awarded to S. G. Barnes, in that of 1874 to J. R. Williams, and in that of 1875 to H. H. Jackson.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1872, offered by the London Society of that name, for the best examination in English before Chaucer, was won by S. G. Barnes of 1873, for the best examination in Beowulf; for 1873 by J. R. Williams of 1874, for the best examination in Caedmon; and for 1874 by H. H. Jackson of 1875, for the best examination in Alfred's Meters.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows :

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics. }
	Second Term.	Physics, (begun.) } See Physics, p. 38.
	Third Term.	Physics, (ended.) }
SENIOR YEAR	*First Term.*	Astronomy, (commenced.)
	Second Term.	Astronomy, (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 25 to 29.

Text-books are used as mentioned on pages 21, 22, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—Two prizes were founded in this department in 1868. The first prize consists of thirty dollars, and is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1870 it was awarded to R. W. D. Bryan, in 1871 to James C. Crawford, in 1872 to Jefferson Snyder, in 1873 to T. C. Galbreath, in 1874 divided equally between Charles J. Nourse, and S. L. Stiver. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1870 to A. Swartz, in 1871 to James I. Good, in 1872 to Nathaniel Taylor. An equal award of $20 to each was made in 1873 to S. M. Riley, of the Scientific department, and S. L. Stiver, of the Classical department, in 1874 to Henry S. Corey, of the Classical department, and Arthur M. McComb, of the Scientific department; and hereafter a Junior prize of $20 will be given in each department.

PHYSICS.

The studies of this department in the Classical and the General Scientific Courses occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved by new instruments devised or selected by Professor Moore.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 26—29.

In the departments of Physics, Mathematics, Astronomy, and Chemistry, instruction has been aided by the preparation of a series of eight hundred wall-charts, mounted on cloth, and executed by Gustave Garnier; many of these diagrams embrace illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 31.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Botany.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures.

In MINERALOGY the classes have the advantages of the instructions of Professor Prime, and of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 27—28.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical department, the degree of BACHELOR OF PHILOSOPHY on graduates of the General Scientific Course.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER's degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is $6. From those who enter College after January 1st, 1875, this fee will not be required, as it is covered by the matriculation fee, as stated on page 42.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING-ROOM.

The College Library is open Thursday, Friday and Saturday, at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

The EASTONIAN HALL, in the east wing of East College, is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The ALUMNI SOCIETY is composed of Graduates of the College and such

of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday afternoon preceding commencement-day.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or General Scientific Course....	$15.00	a term.
Tuition in the Technical Courses, or Working Sections.....	25.00	"
General expense.....	5.00	"
Library and Reading Room.....	2.00	"

The annual College charges are therefore for those who pay tuition in full, sixty-six dollars for the Classical or General Scientific Course, and ninety-six dollars in the Technical Courses. Beginning January 1, 1875, and thereafter, in place of the fees now paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, amounting to $15, each student will pay $5 when he is registered on entering college, and $10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the use of the laboratory and the aid of the Professor in attendance. Each will, of course, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs the past year was from $2.65 to $4.50 per week. Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dollars a term (average $8.) Unfurnished rooms adjacent to the College premises can be rented for from ten to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded at the close of the year. Last year the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed $275; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission.

RECENT ADDITIONS,

The Jern-Kontoret of Sweden has lately presented a complete set of iron, copper, nickel and lead ores, together with a full suite of the irons, steels, slags, mattes and metals made from them.

Garnets, petrifactions, and Indian curiosities have been received from the Rev. John Menaul, of the Class of 1865, of Fort Wingate, Arizona. A Golden Eagle was presented by Samuel Hayden, of Easton.

Large additions have been made to the Herbarium.

Mr. Benjamin Douglass has made a donation for the increase of the Library in the department of Christian Greek and Latin, from which about one thousand dollars have been expended during the last year in the purchase of the best working editions of such authors and apparatus of

investigation and study. The Library has also received gifts from Hon. E. W. Leavenworth, Henry J. Williams, General Robert Patterson, Prof. William Harkness, M.D., M. Mylert, Dr. C. W. Holmes, The Smithsonian Institution, and the U. S. Bureau of Education.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of Early English texts.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1875–1876.

WITH THE COURSES OF STUDY.

EASTON, PA.
1876.

COLLEGE CALENDAR.

1875.

September 2, Thursday.—First term began.
December 22, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1876.

January 6, Thursday.—Second term begins.
January 27, Thursday.—Day of Prayer for Colleges.
February 22, Tuesday.—Anniversary of the Washington Literary Society.
March 21, Tuesday.—Junior Orator Contest.
March 22, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 6, Thursday.—Third term begins.
June 12—14.—Final Examination of the Senior Class.
June 22—26 —Examination of the lower classes.
June 25, Sunday.—Baccalaureate Sermon.
June 25, Sunday.—Anniversary of the Brainerd Missionary Society.
June 25, Sunday.—Sermon before the Christian Brotherhood.
June 26, Monday.—Senior Class Day and Concert.
June 27, Tuesday.—Reunion Meetings of the Literary Societies.
June 27, Tuesday.—Technical Theses read and defended.
June 27, Tuesday.—Alumni Oration and Social Reunion.
June 27, Tuesday —Oration before the Literary Societies.
June 28, Wednesday.—Commencement Exercises.
June 29, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

August 29—30, Tuesday and Wednesday.—Examinations for admission.
August 31, Thursday.—First term begins.
November 24, Friday.—Anniversary of Franklin Literary Society.
December 20, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1877.

January 4, Thursday.—Second term begins.
March 20, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

HON. JAMES POLLOCK, LL.D., PRESIDENT,	PHILADELPHIA.
REV. S. M. ANDREWS, D.D.,	DOYLESTOWN.
REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
HON. JAMES ROSS SNOWDEN, LL.D.,	PHILADELPHIA.
A. PARDEE,	HAZLETON.
ALFRED MARTIEN,	PHILADELPHIA.
REV. J. H. MASON KNOX, D.D.,	BRISTOL.
THOMAS BEAVER,	DANVILLE.
JOHN WELLES HOLLENBACK,	WILKES BARRE.
WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. McKEEN,	EASTON.
GEN. ROBERT PATTERSON,	PHILADELPHIA.
BENJAMIN C. CLARKE,	NEW YORK CITY.

☞ The next term begins one week later than the time published in the College Catalogue. The examinations for admission will, therefore, be held on Tuesday and Wednesday, Sept. 5 and 6, and the term will begin on Thursday, Sept. 7, 1876.

COLLEGE CALENDAR.

1875.

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December 22, Wednesday.—First term ended.

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REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
HON. JAMES ROSS SNOWDEN, LL.D.,	PHILADELPHIA.
A. PARDEE,	HAZLETON.
ALFRED MARTIEN,	PHILADELPHIA.
REV. J. H. MASON KNOX, D.D.,	BRISTOL.
THOMAS BEAVER,	DANVILLE.
JOHN WELLES HOLLENBACK,	WILKES BARRE.
WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. McKEEN,	EASTON.
GEN. ROBERT PATTERSON,	PHILADELPHIA.
BENJAMIN G. CLARKE,	NEW YORK CITY.
C. DELANO WOOD,	BROOKLYN, N.
HON. G. DAWSON COLEMAN,	LEBANON.

SAMUEL L. FISLER, SECRETARY AND TREASURER, EASTON, PA.

MEMBERS OF THE FACULTY.

REV. WILLIAM C. CATTELL, D.D., PRESIDENT,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

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PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

REV. THOMAS C. PORTER, D.D.,
PROFESSOR OF BOTANY AND ZOOLOGY.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
PROFESSOR OF MODERN LANGUAGES.

REV. ROBERT B. YOUNGMAN, A.M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

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PROFESSOR OF METALLURGY AND MINERALOGY.

E. HUBBARD BARLOW, A.M.,
PROFESSOR OF RHETORIC AND ELOCUTION, AND OF PHYSICAL CULTURE.

ROSSITER W. RAYMOND, PH. D.,
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(George Hollenbach Professorship of Mathematics.)

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JUSTUS MITCHELL SILLIMAN, M.E.,
MARKLE PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

JOSEPH G. FOX, C.E.,
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ADAMSON PROFESSOR OF ANALYTICAL CHEMISTRY.

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DOUGLASS PROFESSOR OF CHRISTIAN GREEK AND LATIN.

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ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

JOSEPH JOHNSTON HARDY, A.M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

DAVID BENNETT KING, A.M.,
ADJUNCT PROFESSOR OF LATIN.

WM. BAXTER OWEN, A.M.,
ADJUNCT PROFESSOR OF GREEK.

JOHN MEIGS, A.M.,
ADJUNCT PROFESSOR OF MODERN LANGUAGES.

ANDREW H. CAUGHEY, A.M.,
ADJUNCT PROFESSOR OF LATIN.

WILLIAM S. SWEENY, A.M.,
TUTOR IN CHEMISTRY.

JOHN G. DIEFENDERFER, C.E.,
TUTOR IN MATHEMATICS.

WILLIAM HENRY SCHUYLER, A.B.,
TUTOR IN ANCIENT LANGUAGES.

JOSEPH R. SHIMER, M.E.,
TUTOR IN METALLURGY.

EDWARD HART, B.S.,
TUTOR IN CHEMISTRY.

WM. H. WEAVER, Janitor.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1876.

STRICKLAND KNEASS,	PHILADELPHIA.
P. W. SHEAFER,	POTTSVILLE.
FRANK CARTER,	MAHANOY CITY.
DAVID THOMAS,	CATASAUQUA.
ALFRED HAND,	SCRANTON.
CHARLES PARRISH,	WILKES-BARRE.

Term Expires 1877.

JOHN W. GARRETT,	BALTIMORE, MD.
A. A DOUGLAS,	MAUCH CHUNK.
JOHN WANAMAKER,	PHILADELPHIA.
H. C. FAHNESTOCK,	NEW YORK CITY.
HENRY J. WILLIAMS,	CHESTNUT HILL.
ALEXANDER L. HOLLEY,	NEW YORK CITY.

Term Expires 1878.

ASHBEL WELSH,	LAMBERTVILLE, N. J.
SELDEN T. SCRANTON,	OXFORD, N. J.
JOHN LEISENRING,	MAUCH CHUNK.
HENRY K. SMITH,	CHESTNUT HILL.
W. DWIGHT BELL,	PHILADELPHIA.
HENRY McCORMICK,	HARRISBURG.

COMMITTEE OF THE ALUMNI.

REV. GEORGE C. HECKMAN, D.D., President of Hanover College, Ind., President of the Alumni Association, Class of 1845.

HON. NATHANIEL B. SMITHERS, Dover, Delaware, Class of 1836.

HON. WILLIAM A. PORTER, Philadelphia, Class of 1839.

GEN. EDWARD L. CAMPBELL, Trenton, N. J., Class of 1855.

CHARLES B. VASTINE, M.D., St. Louis, Mo., Class of 1856.

FRANK D. HETRICK, A.M., Assayer, U. S. Mint, San Francisco, Cal., Class of 1859.

BENJAMIN DOUGLASS, Jr., A.M., New York City, Class of 1871.

STUDENTS.

REFERENCES.

South College, S.—East Hall, E.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powell Hall, P.—McKeen Hall, McK.—Special Course, †

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Prof. S. G. Barnes, A.B., Iowa College, Grinnell, Ia.	Lafayette, 1873. 339 Bushkill Street.	Philology.
J. V. A. Craighead, M.E., New York City.	Lafayette, 1875. 132 N. 4th St.	Mining Engineering.
Andrew F. Derr, A.B., Wilkes-Barre.	Lafayette, 1875. 245 Bushkill St.	Modern Languages.
Wm. Henry Harrison, A.B., Easton.	Lafayette, 1875. 45 McCartney St.	Natural History.
J. B. Heller, Jr., A.B., Easton.	Lafayette, 1874. 675 Walnut St.	Chemistry.
A. M. McComb, C.E., Dayton, Ohio.	Lafayette, 1875. 132 N. 4th St.	Mining Engineering.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
Isaac Oakford Acton,	*Salem, N. J.,*	12 McK.
Fernando de Albuquerque,	*San Paulo, Brazil,*	238 Bushkill St.
Joseph Kirkwood Alexander,	*Moundsville, W. Va.,*	9 P.
Milton Rothrock Alexander,	*Lewistown,*	47 S.
Clarence Newton Andrews,	*Easton,*	340 Spring Garden St.
Joseph Howell Andrews,	*Phillipsburg, N. J.,*	43 S.
George Albert Angle,	*Roxburg, N. J.,*	9 M.
James Bacon,	*Osceola,*	4 McK.
Isaac Barber,	*Phillipsburg, N. J.,*	1 P.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Allen Peter Berlin,	*Slatington*,	8 McK.
Samuel Austin Besson,	*Everettstown, N. J.*,	10 N.
Charles Welles Bixby,	*Wyalusing*,	26 McK.
Maynard Bixby,	*Wyalusing*,	26 McK.
Silas Belden Brown,	*May's Landing, N. J.*,	5 McK.
John Alfred Buchanan,	*Honeybrook*,	13 P.
Richard Edward Chism,	*Easton*,	Porter's Block.
John Waugh Clendenin,	*Mechanicsburg*,	11 M.
John Alexander Covode,	*Chambersburg*,	11 M.
William Franklin Dannehower,	*Tylersport*,	22 McK.
Harry Emmons,	*Wilmington, Del.*,	2 McK.
William Thomas Fee,	*Franklin*,	18 McK.
John Slough Freeman,	*Centre Point*,	22 S.
John Bennett Fuller,	*Montoursville*,	36 S.
John Torrey Fuller,	*Wilkes-Barre*,	10 McK.
James Gayley,	*Colora, Md.*,	6 M.
Jacob Bruner Graham,	*Honeybrook*,	13 P.
Frank Graham Harris,	*Glen Hope*,	19 McK.
Thomas Abraham Horn Hay,	*Easton*,	341 Northampton St.
John King Hays, Jr.,	*Williamsport*,	330 Spring Garden St.
Alfred Heebner,	*Port Carbon*,	8 P.
John Burke Hendry,	*Easton*,	13 S.
Charles Christopher Henschen, Jr.,	*Baltimore, Md.*,	13 B.
Everett Newell Huggins, †	*New York City*,	34 S.
Forrest Hulings,	*Emlenton*,	14 McK.
Willis Martin Hunt,	*Clarksville, N. J.*,	18 McK.
John Coleman Irwin,	*Indiana*,	9 M.
Matthew Hale Jones, Jr.,	*Easton*,	87 Centre Square.
Jackson Perry Keeney,	*Towanda*,	44 S.
John Franklin Keller, †	*Lancaster*,	1 E.
Alexander Lowry Kinkead,	*Hollidaysburg*,	14 McK.
Edwin Houston Lamberton,	*Franklin*,	27 McK.
Asa Leard,	*Cowansville*,	14 M.
Thomas William Leard,	*Cowansville*,	14 M.
Arthur Coffin Logan,	*Scranton*,	11 P.
Harry Vannuys Logan,	*Scranton*,	11 P.
Alvin Theodore Ludwig,	*Allentown*,	9 N.
John Moore McCahan,	*Philadelphia*,	14 B.
Oliver Campbell McClure,	*Thurlow*,	20 B.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
William Henry McCurdy,	*Slate Hill*,	45 S.
Abram McMurtrie,	*Belvidere, N. J.*,	20 McK.
John Stockton Marquis,	*Dunningsville*,	24 S. C.
William Andrew May,	*Wilviamsport*,	19 McK.
Henry Daniel Michler,	*Easton*,	Lafayette Park.
James Monahan,	*Sedalia, Mo.*,	37 S.
Samuel Black Neilson,	*New Bloomfield*,	17 N.
Clearfield Park,	*Bloomsbury, N. J.*,	24 McK.
Edward Peacock,	*Lancaster*,	6 M.
William Louis Plack, †	*Altoona*,	1 McK.
John Porter,	*Easton*,	Prof. Porter's.
Henry Emery Raesly,	*Mount Bethel*,	14 S.
George Montgomery Rea, †	*Hackettstown, N. J.*,	9 McK.
Russell B. Rice,	*Perrysville, Ohio*,	12 N.
James Reese Schick, †	*Easton*,	43 N. 4th St.
Nicholas Irwin Scott, †	*Twenty-Mile Stand, O.*	11 S. Centre Sq
John Jay Serfass, †	*Easton*,	453 Northampton St.
Wyn Reeves Sewell,	*Allegheny*,	8 M.
Cyrus Lee Stevens,	*Stevensville*,	37 S.
William Clark Stull,	*Milford, N. J.*,	22 S.
Israel Henry Supplee, †	*West Haverford*,	12 McK.
Victor Piollet Wierman,	*Harrisburg*,	6 E.

SENIORS.....70.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Charles Baeder Adamson,†	*Philadelphia*,	12 P.
John Bell Alexander,	*Lewistown*,	47 S.
William John Alexander,	*East Liberty*,	43 S.
Walter Lowrie Alexander,	*Moundsville, W. Va.*,	9 P.
William Edgar Baker,	*Elizabeth, N. J.*,	N. 3d St.
Charles Heath Bannard,	*Salem, N. J.*,	12 M.
Edwin Clark Beers,	*Phillipsburg, N. J.*,	43 S.
Joseph Edward Bimm,	*Dayton, Ohio*,	20 McK.
James Wilson Bright,	*Lock Haven*,	23 S.
Asher Davidson Bubb,	*Antes Fort*,	36 S.
Jacob Pennypacker Buckwalter,	*Schwenksville*,	32 S.
Robert Williams Clark,†	*Chambersburg*,	27 S.
Harold Clemens,†	*Easton*,	——
John Wesley Codding,	*Towanda*,	7 P.
Robert Gilson Craighead,†	*Dayton, Ohio*,	12 McK.
Thomas Roney Crowell,	*Odessa, Md.*,	232 Bushkill St.
George Palmer Curtis,	*Hackettstown, N. J.*,	35 S.
Rufus Darr,	*Jacob's Creek*,	——
David Duncan Davidson,	*Warren*,	12 B.
John Russell Dickson,	*Hunterstown*,	10 M.
Ferdinand Van Derveer Dilts,	*Somerville, N. J.*,	43 N. 4th St.
Casper Dull,†	*Harrisburg*,	6 McK.
Mervin Johnson Eckels,	*New Kingston*,	10 M.
Charles Henry Edgar,	*Elizabeth, N. J.*,	58 N. 2d St.
Albert Cecil Fairchild,	*Newark, N. J.*,	43 N. 4th St.
Edwin John Farber,	*Baltimore, Md.*,	129 Cattell St.
Thomas Chalmers Ferguson,	*Bordentown, N. J.*,	200 McCartney St.
Howard Mervin Fisher,	*Elkview*,	48 S.
Robins Fleming,	*Readington, N. J.*,	825 Walnut St.
James Wesley Gilland,	*Shady Grove*,	27 S.
James Tracy Hale,	*Towanda*,	7 P.
Russell B. Harrison,	*Indianapolis, Ind.*,	214 Bushkill St.
Wm. Piper Smith Henry,	*Everett*,	58 S.
Abraham Hogeland,	*Doylestown*,	28 S.
Albert Harrison Hogeland,	*Davisville*,	28 S.
Andrew Porter Huey,	*Airy Dale*,	28 McK.
Henry Clay Hunt,†	*Poughkeepsie, N. Y.*,	619 High St.

JUNIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Robert Playford Kennedy,	*Philadelphia*,	17 B.
Edward Joseph Knox,	*Dayton*,	45 Sitgreaves St.
John McFarland Leech,	*Saltsburg*,	31 S.
Charles Franklin Lewis,	*Knowlesville, N. Y.*,	26 N. 3d St.
Ellis Reuben Lichtenwallner,	*Allentown*,	McCartney St.
Edward Wack Long,	*Philadelphia*,	50 S.
Simon Cameron Long,	*Pine Grove*,	13 M.
Oram Howard McAnulty,	*Scranton*,	45 Sitgreaves St.
Henry Mahn McIntire,	*Easton*,	1136 Washington St.
Gilbert N. Marshall, Jr.,†	*New York City*,	232 Bushkill St.
Samuel Albert Martin,	*Canonsburg*,	24 S.
Clifton Mayfield,	*Georgetown, D. C.*,	25 McK.
Francis Hardy Moore,	*Philadelphia*,	202 Bushkill St.
Edward Francis Mordough,	*Brooklyn, N. Y.*,	3 E.
Frederick Gordon Newton,	*Towanda*,	14 E.
Barton Pardee,	*Hazleton*,	12 P.
James Lawson Patterson,	*Savannah, Ohio*,	33 S.
William Hart Patterson,	*Columbia, S C.*,	21 S.
George Henry Ruggles Plumb,	*Sugar Notch*,	21 McK.
Henry Albert Potter,	*Chestnut Hill*,	24 N.
McCluney Radcliff,	*Lewistown*,	23 S.
James Nelson Ramsey, Jr.,	*Clinton, N. J.*,	45 Sitgreaves St.
Milo Pearson Reagle,	*Mount Bethel*,	14 S.
Stephen Marion Reynolds,	*Factoryville*,	35 S.
Harry Vernon Rice,	*Kalamazoo, Mich.*,	123 McCartney St.
Wallace Berkley Riegner,	*Chambersburg*,	27 S.
James Boyd Risk,	*Philadelphia*,	15 McK.
Jacob Washington Schwartz,	*Tamaqua*,	7 McK.
Harry Omar Scott,	*Confluence*,	15 E.
John Cresswell Shumaker,	*Chambersburg*,	14 P.
Benjamin Silver,	*Glenville, Md.*,	4 McK.
John Tinney Skeen,†	*Port Deposit, Md.*,	200 McCartney St.
Clinton Creveling Snyder,	*Espy*,	43 N. 4th St.
George Washington Terbush,	*Poughkeepsie, N. Y.*,	45 Sitgreaves St.
James Todd, Jr.	*Indiana*,	27 McK.
William Garvin Trunkey,	*Franklin*,	10 P.
Frank Newcomb Turner,	*Port Carbon*,	203 McCartney St.
Jacob Peter Uhler,	*Stockertown*,	453 Northampton St.

JUNIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Richard Marshall Van Horn,	*Hackettstown, N. J.*,	4 McK.
Lewis Rhoads Walters,	*Phœnixville*,	13 M.
Artemus Crawford Ward,	*Le Roy, N. Y.*,	45 S.
George Miles Wells,	*Easton*,	11 McK.
Martin Jacob Youngblood,	*Hackettstown, N. J.*,	243 Bushkill St.

JUNIORS.....80.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
James Arnold Aiman,	*Flourtown*,	210 McCartney St.
William Mott Allison,	*Mifflintown*,	33 S.
Edward Damon Allen,	*Franklin*,	24 E.
Horace Beemer Ayres,	*Allamuchy, N. J.*,	7 E.
Hervey Winthrop Beymer,	*Pittsburgh*,	221 Northampton St.
Walter James Bradshaw,	*Indianapolis, Ind.*,	136 N. 2d St.
Andrew Scott Brown,	*Erie*,	5 McK.
John Thompson Cathers,†	*Reynoldsville*,	16 B.
John Charles Churchill, Jr.,	*Oswego, N. Y.*,	5 E.
William Gates Coffin,	*Deposit, N. Y.*,	14 E.
William Alexander Cox, Jr.,	*Shippensburg*,	323 Spring Garden St.
John Davidson Dorris,	*Huntingdon*,	17 McK.
John Jacoby Dungan,	*Flourtown*,	24 E.
Joseph Edward Durham,	*Dewart*,	8 P.
John Robert Eaton, †	*Archbald*,	49 S.
Alexander Elliott, Jr.,	*Dover, N. J.*,	6 McK.
John Kennedy Ewing, Jr., †	*Uniontown*,	25 McK.
Wallace Henderson Falls,	*New Castle*,	221 Northampton St.
Charles Forney,	*Lebanon*,	5 E.
Edward Fox,	*Easton*,	107 S 6th St.
Joel Scobey Gilfillan,	*Parkesburg*,	15 E.
James Johnson Grant,	*Navarre, Ohio*,	33 S.
Charles Cooper Griffith,	*Brady*,	18 E.
Jacob Koch Griffith,	*Pittston*,	46 S.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Robert Hugh Hamill,	*Boalsburg*,	12 E.
Naudain Hamilton,	*Harrisburg*,	300 Bushkill St.
Edgar Hart, †	*Pennington, N. J.*,	232 Bushkill St.
Samuel S. Hartranft,	*Harrisburg*,	11 Centre Square.
Charles Heebner,	*Port Carbon*,	8 P.
John Herron, Jr.,	*Dehra, India*,	58 S.
Charles Merrill Hileman,	*Pittston*,	202 Cattell St.
Lewis Ahrens Hoffman,	*Reading*,	51 S.
James Renwick Hogg,	*Philadelphia*,	337 Bushkill St.
Edward Everett Hoyt,	*Kingston*,	20 S.
James D. Hunter,	*Savannah, Ohio*,	18 B.
Charles Collingwood Jennings, Jr.,	*Easton*,	39 South 2d St.
Thomas Glover Johns,	*St. Charles, Mo.*,	——
Robert Stuart Johnston,	*Blairsville*,	4 E.
Jacob Miley Jones,	*Harrisburg*,	17 E.
Richard Armstrong Kennedy, †	*Tarentum*,	123 North 3d St.
William Scott Kerr,	*Saltsburg*,	122 McCartney St.
Frank Delmar Kinnear,	*Franklin*,	10 P.
Harry Knecht,	*Easton*,	25 South 4th St.
Edward Arthur McLaury,	*Monticello, N. Y.*,	18 B.
James Cameron Mackenzie,	*Wilkes-Barre*,	3 McK.
George B. Markle, Jr.,	*Philadelphia*,	15 B.
Charles Dinsmore Marvin,	*Erie*,	5 McK.
William Newton Mateer,	*Shippensburg*,	337 Bushkill St.
Joshua Lewis Miner,	*Wilkes-Barre*,	3 McK.
Charles Newton,	*Nicholson*,	12 S.
Charles Thomas Officer,	*Council Bluffs, Ia.*,	216 McCartney St.
Cyrus Simpson Pershing,	*Pittsburg*,	60 S.
Howard Terry Pershing,	*Pottsville*,	60 S.
George Washington Phillips,	*Hyde Park*,	12 S.
Samuel Wilberforce Powel,	*Port Kennedy*,	50 S.
James Ramsay, †	*Delaware Station, N. J.*,	1 P.
Alexander Burton Randall,	*Annapolis, Md.*,	1 McK.
Charles Michler Ray,	*Washington, D. C.*,	12 M.
Charles Bement Riggs,	*Elmira, N. Y.*,	2 McK.
George Redsecker Ross,	*Lebanon*,	18 E.
George Washington Sandt,	*Easton*,	302 Cattell St.
Horace Daniel Sassaman,	*Erwinna*,	36 South 4th St.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Arch Tanner Scofield,	*Warren*,	8 M.
James Harvey Scott,	*Elizabeth*,	122 McCartney St.
Joshua Rogers Serfass,	*Easton*,	453 Northampton St.
Edward Richard Shaw,	*Bellport, L. I.*,	——
William Lesley Sheafer,	*Pottsville*,	59 S.
George Vernon Sheffield,	*Newburg, N. Y.*,	21 S.
John Franklin Sheppard,	*Bridgeton, N. J.*,	210 McCartney St.
John Maxwell Sherrerd,	*Belvidere, N. J.*,	23 E.
Porter Wilson Shimer, †	*Easton*,	137 McCartney St.
Harry Addis Smith,	*Richboro*,	120 McCartney St.
Henry Snyder,	*Easton*,	44 South 7th St.
Samuel Alexander Soxman,	*Congruity*,	47 McCartney St.
Alexander Ramsey Speel,	*St. Paul, Minn.*,	300 Bushkill St.
John Stengelin, Jr.,	*Easton*,	125 South 3d St.
Russell Chidsey Stewart,	*Easton*,	123 N. 2d St.
George Washington Stout, Jr.,	*Easton*,	159 Ferry St.
William Broadwell Sullivan,	*Dayton, Ohio*,	337 Bushkill St.
John Charles Temple, †	*Dayton, Ohio*,	16 E.
Marcus Calvin Turner,	*Batavia, N. Y.*,	120 McCartney St.
Francis Eugene Wade,	*Hackettstown, N. J.*,	44 S.
Edwin Teel Walker,	*Strasburg*,	19 S.
Barge Christopher Weidman,	*Lebanon*,	206 Spring Garden St.
Bard Wells,	*Pottsville*,	11 McK.
William Dana Wheeler,	*Oswego, N. Y.*,	202 Bushkill St.
John Fremont Williamson,	*Sidney, N. J.*,	18 B.
George Franklin Pierce Young,	*Klecknersville*,	56 S.
Thomas Oscar Young,	*Klecknersville*,	56 S.

SOPHOMORES.....89.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Charles Arthur Allison,	*Mifflintown*,	33 S.
Elliott Chidsey Armstrong,	*Philadelphia*,	19 E.
William Whitney Ballard, †	*Springfield, Ohio*,	202 Cattell St.
James Woodbridge Barnes,	*Perth Amboy, N. J.*,	30 S.
Jacob Edgar Belville,	*Pottsville*,	57 S.
Theodore Kleinhans Bennett,	*Phillipsburg, N. J.*,	——
Edmund L. Bixler,	*Easton*,	335 Ferry St.
Edward Francis Blewitt,	*Scranton*,	15 S.
Edmund Swalm Boyer,	*Pottsville*,	57 S.
Charles Gibson Brown,	*Huntingdon*,	10 McK.
Augustus James Burgner,	*Delaware City, Del.*,	49 McCartney St.
Frederick Gillett Byles,	*Fredonia*,	4 E.
Reed Caughey,	*Easton*,	122 McCartney St.
Henry Stewart Cavanaugh,	*Easton*,	161 South 3d St.
Swellon Fowler Channell, †	*Canton*,	59 S.
George William Pennell Coates,	*Baltimore, Md.*,	231 Cattell St.
Charles Anderson Craighead,	*Dayton, Ohio*,	14 P.
Charles Markley Crawford,	*New Castle*,	221 Northampton St.
Thomas Morris Defrees,	*Washington, D. C.*,	22 N.
Martin Luther Deitzler,	*Reading*,	30 S.
Augustus Theodore Dobson,	*Chester*,	15 E.
Ezra Chalmers Doty,	*Mifflintown*,	21 McK.
Isaac Eckert,	*Reading*,	23 E.
Isaac Gerhart Eckert,	*Reading*,	16 E.
Horace Jay Evans,	*Council Bluffs, Iowa*,	331 High St.
John Creigh Evans,	*Port Deposit, Md.*,	200 McCartney St.
Leonard Bertner Eyster,	*Chambersburg*,	16 S.
William Fackenthal,	*Easton*,	21 E.
Charles Hunt Fell,	*Wilkes-Barre*,	136 North 2d St.
John William Flad,	*Easton*,	647 Northampton St.
Robert Foresman,	*Johnsonsburg, N. J.*,	56 S.
Thomas Chalmers Fulton,	*Catasauqua*,	——
Edward Coleman Freeman, †	*Cornwall*,	6 E.
John Oscar Glase,	*Oley*,	10 E.
Herbert Thomas Gould,	*South Easton*,	Canal St. S. E.
Lewis Grant,	*Shenandoah*,	210 McCartney St.
George Milton Harleman,	*Weatherly*,	19 B.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Francis Heck,	*Paxinos*,	21 E.
Daniel Coyle Herr,	*Harrisburg*,	300 Bushkill St.
Frank Hinkle,	*Columbia*,	219 N. 3d St.
Stewart Maurice Hohl,	*Easton*,	331 Ferry St.
Hiram Bacon Howland,	*Indianapolis, Ind.*,	341 N'thampton St.
Oscar Jarecki,	*Erie*,	328 Ferry St.
William John Jones,	*Slatington*,	32 N. 3d St.
John Bradley Kitchen,	*Indianapolis, Ind.*,	214 Bushkill St.
George Reed Lawrence,	*Monongahela City*,	59 S.
James Major McCarty,	*Reading*,	24 E.
Herman Keller McCauley,	*Altoona*,	20 E.
George Davidson McDowell,	*Chambersburg*,	26 N. 3d St.
John George McGowan,	*Reading*,	——
William Henry McIlhany,	*Martin's Creek*,	——
Robert MacDonald,	*Barton, Md.*,	25 McK.
William Hollingsworth Mackall,	*Elkton, Md.*,	231 Cattell St.
Jacob Truman Martin,	*Allentown*,	231 Cattell St.
Edward Patterson Micke, †	*Easton*,	205 Northampton St.
Elwood Andrew Miller,	*Huntingdon*,	17 McK.
Henry Millholland,	*Reading*,	24 E.
Louis Herman Millikan,	*Washington C.H., O.*,	202 Cattell St.
Frank Pardee,	*Hazleton*,	12 P.
Robert Pollock Parker,	*Oil City*,	202 Bushkill St.
Winfield Lattin Parsons,	*Wilkes-Barre*,	210 McCartney St.
John Douglass Perkins,	*Coatesville*,	31 S.
George Wehn Plack,	*Altoona*,	20 E.
William Plumer Potter,	*Winterset, Iowa*,	——
Frank Scott Pusey,	*Council Bluffs, Iowa*,	224 Cattell St.
James Mitchell Reese,	*Phillipsburg, N. J.*,	——
Alexander Hibberd Roberts,	*Harrisbury*,	17 E.
William Seeger Roland,	*New Holland*,	3 E.
William Robinson Ross,	*Lebanon*,	18 E.
Samuel Carson Rowland,	*Port Deposit, Md.*,	228 Cattell St.
Frederic Gustavus Sage, †	*Easton*,	5 Lane's Court.
Milton Edward Schadt,	*Ruchsville*,	13 E.
Irwin William Schultz,	*Phillipsburg, N.J.*,	20 E.
Herbert Mendelssohn Seem,	*Martin's Creek*,	13 E.
Norcom Livingston Seguin,	*New Orleans, La.*,	11 E.
Harvey Shaw,	*Phillipsburg*,	21 N.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
James Logan Shiland,	*Southampton, N. Y.,*	50 S.
Elijah McDowell Shoemaker,	*Wilkes-Barre,*	16 S.
Benjamin Hoopman Silver,	*Glenville, Md.,*	56 S.
William Irwin Steans,	*Mifflinburg,*	21 S.
William Black Steel,	*Port Deposit, Md.,*	228 Cattell St.
Thomas Louis Stoneroad,	*Dunbar,*	16 B.
Frank Jacob Stotzer,	*Easton,*	15 S. 6th St.
Benjamin Strauss,	*Titusville,*	19 McK.
Scott Truxtun,	*Philadelphia,*	43 N. 4th St.
John Constant Walker,	*Indianapolis, Ind.,*	43 N. 4th St.
William Henry Walters,	*Phillipsburg, N. J.,*	20 E.
Albert Silas Warner,	*Batavia, N. Y.,*	225 Cattell St.
Irvin David Wiltrout,	*Schuylkill Haven,*	——
Hidétaké Taro Yegawa,	*Japan,*	232 Bushkill St.

FRESHMEN.....90.

SUMMARY.

RESIDENT GRADUATES		6
UNDERGRADUATES,	Seniors	70
	Juniors	80
	Sophomores	89
	Freshmen	90
	Total,	335

NEW YORK	18	INDIANA	5
NEW JERSEY	37	IOWA	5
PENNSYLVANIA	226	LOUISIANA	1
DELAWARE	2	MISSOURI	1
MARYLAND	14	MICHIGAN	1
DISTRICT OF COLUMBIA	3	MINNESOTA	1
VIRGINIA	1	BRAZIL	1
OHIO	13	JAPAN	1
WEST VIRGINIA	2	INDIA	1
SOUTH CAROLINA	2		

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate Course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 Mr. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees, in the presence of His Excellency, Governor Hartranft; the State Superintendent of Education, Hon. J. P. Wickersham, LL.D.; the Synod of Philadelphia, and a great assemblage.* It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand-stone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied, and liberal provision has been made in all the departments of instruction

* The address delivered at the dedication by Professor Raymond, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the studies of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe

and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL.—This course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY.—This course includes text book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and work up the mineral resources of our own and other countries.

POST GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874, and was formally opened for students Oct. 6, 1875. The course of instruction extends through two years, and is designed to furnish a thorough preparation for the practice of the legal profession. (See pp. 47–48.)

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness's Latin Prose Composition (Part I.); Xenophon's Anabasis; the Gospels in the Greek Testament; Jones's Greek Prose Composition (12 Lessons); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible. Those who elect the study of Latin are examined in the Latin required for admission to the Classical Course.

Technical Courses.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Applicants for instruction in a special study are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTIONS, see pages 31 and 32.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Xenophon, Memorabilia. }
Classical Geography.

Algebra, Loomis's, (continued.)
English Composition.
Lectures on Health.
Old Testament, in English.
Coleman's Biblical Geography.

SECOND TERM.

Cyprian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Herodotus. }

Greek Antiquities.
Geometry, Loomis's, (continued.)
English Composition.
Old Testament, in English.
Coleman's Biblical Geography.

THIRD TERM.

Bible in Latin. } Elective.
Horace. }
Roman Antiquities.
Greek Testament—Mark.
Greek Composition, Boise's.

Algebra, (completed.)
Solid Geometry.
English Composition.
New Testament, in English.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Latin Hymns. } Elective.
Horace. }
Justin Martyr. } Elective.
Homer, Iliad. }
Greek Composition.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Study of Words, Trench.
Greek Testament—Acts.

SECOND TERM.

Augustine. } Elective.
Cicero, de Oratore. }
Athenagoras. } Elective.
Homer, Iliad. }

Archæology of Greek Literature and Art.
Conic Sections, Coffin's.
Rhetoric.
Greek Testament—Acts.

THIRD TERM.

Greek Hymns. } Elective.
Plato. }
French.
Archæology of Roman Literature and Art.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Theoretical Mechanics.
Thucydides.
Josephus.
} Elective.

Chrysostom.
Demosthenes.
} Elective.

Cicero, Tusculan Disputations.
Lactantius.
} Elective.

Descriptive Mechanics.
German.
Greek Testament—Romans.

SECOND TERM.

Tacitus.
Orosius.
} Elective.

Anglo-Saxon, March's Grammar and Reader.
English, Milton.

Fowler's English Language.
Physics, (begun.)
Constitution of the United States.
Political Philosophy.
Greek Testament—Romans.

THIRD TERM.

Physics, (completed.)
Chemistry, with Laboratory practice.
Greek Tragedies.
Septuagint.
} Elective.

Anglo-Saxon, (continued.)
English, Shakespeare.
Fowler's English Language.
Greek Testament—Romans.

Throughout the Year—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoölogy.
Anatomy and Physiology.

Juvenal and Persius.
Boethius.
} Elective.

English Literature.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology, (begun.)
Mineralogy.

Greek. Modern Languages.
Blackstone.
Chemistry.
Astronomy, (completed.)
Hebrew, Green's Grammar.
} Elective.

Evidences of Christianity.

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature.
Philosophy of Mathematics.
} Elective.

Comparative Philology.
Geology, (completed.)
Architecture.

History.
French. German.
Chemistry.
Blackstone.
Hebrew, Chrestomathy.
} Elective.

Butler's Analogy.

Throughout the Year—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Stereotomy, Elementary Drawing.
French or Latin.
English, March's Method.
English Composition.
Chemistry, with Laboratory Practice.
Lectures on Health.
Old Testament.
Coleman's Biblical Geography.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
French. German. } Elective.
Latin.
Chemistry, with Laboratory Practice.
English Composition.
Old Testament.
Coleman's Biblical Geography.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages or Latin.
Mineralogy.
English Composition.
New Testament.
Coleman's Biblical Geography.

Throughout the Year.—Declamations, and written Translations into English from French and German, or Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French. German. } Elective.
Latin.
Study of Words, Trench.
English, Bunyan.
Chemistry, (optional.)
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Topographical Drawing, (optional.)
German or Latin.
Botany. Zoölogy.
Rhetoric.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Botany. Zoölogy.
English, Chaucer.
French. German.
Chemistry, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French or German.
English, Bacon. } Elective.
Chemistry. }
Zoölogy.
Botany.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
Zoölogy.
Botany.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
German or Latin.
Anglo-Saxon, (continued.)
English, Shakespeare.
French.
German.
New Testament Epistles.

Throughout the Year—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
English Literature.
Modern Languages or Latin.
Modern Literature.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology. Mineralogy.
Modern Languages.
Astronomy, (completed) } Elective.
Chemistry. Blackstone. }
Evidences of Christianity.

THIRD TERM.

Geology.
Philosophy of Mathematics. } Elective.
Archæology of Literature. }
History.
Architecture.
Comparative Philology.
Chemistry. Blackstone. } Elective.
Modern Languages. }
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (completed.)
Stereotomy, Elementary Drawing.
Chemistry, with Laboratory Practice.
English.
French.
Lectures on Health.
Coleman's Biblical Geography.
Old Testament, in English.

SECOND TERM.

Geometry, (completed.)
Surveying, Loomis's.
Problems in Division of Land.
Drawing, Plane Problems.
Chemistry.
German. French.
Coleman's Biblical Geography.
Old Testament.

THIRD TERM.

Trigonometry and Mensuration.
Surveying, Field Work.
Geometrical Drawing.
Analytical Chemistry.
French.
German.
Coleman's Biblical Geography.
New Testament.

Throughout the Year —Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Geometry, (begun.)
Surveying, Field Work.
Geometrical Drawing.
Mineralogy.
French. German.
English. Trench on Words.
Acts of the Apostles.

SECOND TERM.

Analytical Geometry, (completed.)
Topographical Drawing.
Botany. Zoölogy.
Chemistry, (optional.)
Mineralogy.
French. German.
Acts of the Apostles.

THIRD TERM.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoölogy.
Determinative Mineralogy.
French. German.
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Descriptive Geometry, (General Orthographic Projections.)
Surveying, Field Work, Adjustment of Instruments.
Practice with the Blowpipe.
Lithology.
Modern Languages.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Hydrographical Surveying.
Geodesy.
Geology.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Geology.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Stability of Structures.
Supply and Distribution of Water.
Strength of Materials.
Political Economy.
Astronomy.
Evidences of Christianity.

THIRD TERM.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
History.
Butler's Analogy.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING Course.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Lithology.
Mine Surveying.
Analytical Chemistry.
Practice with the Blow-pipe.
German. French.
New Testament Epistles.

SECOND TERM.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
Assaying.
Maps of Surveys.
Geology.
New Testament Epistles.

THIRD TERM.

Analytical and Applied Mechanics.
Topographical Surveying.
Analytical Chemistry.
Geology.
Map of Topographical Survey.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Mining.
Metallurgy.
Analytical Chemistry.
General Theory of Machines.
Machine Drawing.
Rule of Faith.

SECOND TERM.

Mining.
Metallurgy.
Analytical Chemistry.
Machinery and Motors.
Supply and Distribution of Water.
Political Economy.
Evidences of Christianity.

THIRD TERM.

Metallurgy.
Analytical Chemistry.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Ore Deposits.
History.
Butler's Analogy.
Graduation Theses.

Throughout the Year.—Themes and Speaking.

CHEMICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Chemistry, with Laboratory Practice.
Algebra, (completed.)
Stereotomy, Elementary Drawing.
English. French.
Coleman's Biblical Geography.
Old Testament in English.

SECOND TERM.

Chemistry, with Laboratory Practice.
Geometry, (completed.)
Drawing. Plane Problems.
German and French.
Coleman's Biblical Geography.
Old Testament.

THIRD TERM.

Analytical Chemistry.
Trigonometry and Mensuration.
Geometrical Drawing.
German and French.
Coleman's Biblical Geography.
New Testament.

Throughout the Year—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Chemistry.
Geometrical Drawing.
Mineralogy.
German and French.
English. Trench on Words.
Acts of the Apostles.

SECOND TERM.

Analytical Chemistry.
Botany and Zoölogy.
Mineralogy.
German.
French.
Acts of the Apostles.

THIRD TERM.

Analytical Chemistry.
Determinative Mineralogy.
French and German.
Botany.
Zoölogy.
Acts of the Apostles.

Throughout the Year—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Lithology.
Practice with the Blow-Pipe.
German.
French.
New Testament Epistles.

SECOND TERM.

Analytical Chemistry.
Practice in Lithology.
Geology.
Assaying.
Physics.
New Testament Epistles.

THIRD TERM.

Analytical Chemistry.
Physics.
Geology.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

Text books in Chemistry in the German language are used during the year.

SENIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Physiological Chemistry.
Toxicology.
Rule of Faith.

SECOND TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Political Economy.
Agricultural Chemistry.
Evidences of Christianity.

THIRD TERM.

Analytical Chemistry.
Gas Analysis.
Metallurgy.
Chemical Technology.
History.
Graduation Theses.
Butler's Analogy.

Throughout the Year.—Themes and Speaking.

Text books in Chemistry in the German language are used.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or of Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General and Analytical Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination in Arithmetic, Algebra and the Metric System. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytical Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them, with drafts, are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, August 31st, 1875.

II. MINING ENGINEERING.

THE SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.
Exploitation.
Shafts.
Supports.
Tunnels.
Embankments.
Drainings.
Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 6th, 1876.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and chemical properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with Malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is mainly occupied with General Chemistry and Analytical Chemistry, Mineralogy and Metallurgy, and is adapted to working Chemists and Miners who do not wish to study Mining Engineering or other advanced mathematics.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, August 31st, 1875, and on Thursday, January 6th, 1876.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

For the course in Christian Latin and Greek, see page 36.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Alexander's Moral Science are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Professor Barlow gives a comprehensive course of lectures on Elocution to the Freshman Class, which is followed by systematic instruction and training extending through the whole College course. The students of all the classes are carefully prepared by private rehearsals for their weekly speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with

the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Chrysostom, Cicero, Boethius, and Plato, in these relations.

Course of Christian Latin and Greek.—The Trustees have been enabled by the munificence of Mr. Benjamin Douglass to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching are provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books. About $1000 have been expended for the increase of the Library in this department during the past year, and a series of text-books is in course of publication.

In 1874–5, the following prizes were given for proficiency in this course:—In the Junior Class, W. C. Stull, $100; C. C. Henshen, $75; S. A. Besson, $50. In the Sophomore Class, M. J. Eckels, $100; Frank Moore and F. N. Turner, $50. Freshman Class, Charles Heebner, $100; C. B. Riggs, J. E. Durham, H. D. Sassaman, and J. F. Sheppard, $25.

In 1875–6, similar prizes are offered to the Senior, Junior, Sophomore and Freshman Classes.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analysed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL.D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1874 were examined on Washington Irving. The prize was awarded to John R. Williams. The Class of 1875 were examined on Longfellow. The prize was awarded to James W. Walk. The Class of 1876 will be examined on Tennyson.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A M., of the Class of 1871.

In the Class of 1873 it was awarded to S. G. Barnes, in that of 1874 to J. R. Williams, and in that of 1875 to H. H. Jackson, and in that of 1876 to W. C. Stull.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1873, offered by the London Society of that name, for the best examination in English before Chaucer, was won by J. R. Williams of 1874, for the best examination in Caedmon; for 1874 by H. H. Jackson of 1875, for the best examination in Alfred's Meters; and for 1875 by W. C. Stull of 1876, for the best examination in the Anglo-Saxon Chronicle.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation. Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun.)
	Third Term.	Physics, (ended.)
SENIOR YEAR	*First Term.*	Astronomy, (commenced.)
	Second Term.	Astronomy, (completed.)

See Physics, p. 39.

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 26 to 30.

Text-books are used as mentioned on pages 22, 23, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1875 it was awarded to A. A. Richards, with honorable mention of H. S. Carey.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical and Scientific, to a member of the Junior Class. In 1875 these prizes were awarded as follows: in the Classical department to W. C. Stull, and in the Scientific department to J. T. Fuller.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved by new instruments devised or selected by Professor Moore.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 27–30.

In the departments of Physics, Mathematics, Astronomy, and Chemistry, instruction has been aided by the preparation of a series of eight hundred wall-charts, mounted on cloth, and executed by Gustave Garnier; many of these diagrams embrace illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 32.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Botany.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures.

In MINERALOGY the classes have the advantages of the instructions of Professor Prime, and of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 28, 29.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course, as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department, the degree of BACHELOR OF SCIENCE on graduates of the General Scientific Course, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is $6. From those who enter College after January 1st, 1875, this fee will not be required, as it is covered by the matriculation fee, as stated on page 43.

Doctor's Degree.—Graduates of the College of three years standing, and resident students of post-graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING-ROOM.

The College Library is open Thursday, Friday, and Saturday, at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at their regular meetings.

The EASTONIAN HALL is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett of Baltimore. There is also a full-length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans of Paris.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY, Professor PORTER, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The CHEMICAL SOCIETY, Professor DROWN, President, meets in Pardee Hall. Papers on chemical or allied subjects are presented and discussed by the members. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of PHYSICS AND ENGINEERING, Professor MOORE, President, has for its object the investigation and discussion of subjects connected with these departments.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday preceding Commencement-day.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or General Scientific Course	$15	00	a term.
Tuition in the Technical Courses, or Working Sections	25	00	"
General Expense	5	00	"
Library and Reading Room	2	00	"

The annual College charges are therefore for those who pay tuition in full, sixty-six dollars for the Classical or General Scientific Course, and ninety-six dollars in the Technical Courses. In place of the fees formerly paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, amounting to $15, each student pays $5 when he is registered on entering college, and $10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the use of the laboratory and the aid of the Professor in attendance. Each will, of course, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board the past year in clubs managed by the students was from $2.75 to $3 25 per week.* Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dollars a term (average $8.) Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and travelling expenses—need not exceed $250, as will be seen from the following summary:

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* There were last year nine of these Clubs. The price of board, per week in each, was as follows:—(1) $2 75; (2) $3.00; (3) $3.10; (4) (5) and (6) $3.15; (7) $3.20; (8) and (9) $3.25.

COLLEGE CHARGES.

General Expense,	$15 00	
Library and Reading Room,	6 00	
Damages, (if not returned,)	3 00	$24 00

INCIDENTAL EXPENSES.

Fees and dues, Literary and Scientific Societies,	$8 00	
Text-books and Stationery, (estimated)	20 00	$28 00

PERSONAL EXPENSES.

Board for 39 weeks, (at lowest club rates)	$107 25	
Room Rent, (average as above)	24 00	
Fuel, (as above)	6 75	
Light and Washing, (estimated)	24 00	$162 00
		$214 00
Leaving a balance for contingencies,		36 00
Total as above,		$250 00

Board at the highest club rates, $3.25 per week, would add $19.50 to the above estimate, but would still leave, from the two hundred and fifty Dollars, $16.50 for contingencies.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

RECENT ADDITIONS.

The Jern-Kontoret of Sweden has lately presented a complete set of iron, copper, nickel and lead ores, together with a full suite of the irons, steels, slags, mattes and metals made from them. The department of Mining Engineering has received the gift of a large collection made by P. W. Sheafer, of Pottsville The Messrs. DuPont, of Wilmington, Delaware, have presented a full suite of specimens illustrating the manufacture of gunpowder.

Garnets, petrifactions, and Indian curiosities have been received from the Rev. John Menaul, of the Class of 1865, of Fort Wingate, Arizona. A Golden Eagle was presented by Samuel Hayden, of Easton.

Large additions have been made to the Herbarium.

Mr. Benjamin Douglass has made a donation for the increase of the

Library in the department of Christian Greek and Latin, from which about one thousand dollars have been expended in the purchase of the best working editions of such authors and of apparatus of investigation and study. Messrs. R. L. and A. Stuart have strengthened this department by the gift of a set of the Ante-Nicene Fathers. The heirs of C. L. Ward, Esq., have during the last year presented to the College his well-known library, of about ten thousand choice volumes of general literature, his law library, and all the books and pamphlets of his American historical collection, with his extensive collections of autographs, engravings, and curiosities. The Hon. Joseph Casey has presented valuable series of American Annals and State Papers, and of Legal and Congressional reports. R. Taylor, D.D , has presented sets of works on Theology. The Library has also received gifts from General A. J. Myer, Dr. J. Curwen, T. McCamant, Esq., (Class of 1861,) Hon. C. W. Butterfield, C. C. Dawson, Esq., H. R. Kraber, A. C. Tully, (Class of 1865,) T. C. English, (Class of 1873,) Superintendent C. P. Patterson, of the Coast Survey, the Treasury Department, the War Department, the Department of the Interior, the Board of Regents of the University of the State of New York, the Smithsonian Institution, and the U. S. Bureau of Education.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of Early English texts.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

LAW DEPARTMENT.

A Law Department has been organized by the Trustees of Lafayette College. It was formally opened on Wednesday, October 6th, 1875.

THE FACULTY.

WILLIAM C. CATTELL, D. D., President.

W. S. KIRKPATRICK, A. M., Dean of the Law Department and Professor of Elementary Law and History of Jurisprudence.

MATTHEW HALE JONES, A. M., Professor of Municipal Law.

TRAILL GREEN, M. D., LL D., Professor of Medical Jurisprudence.

FRANCIS A. MARCH, LL.D., Lecturer on Constitutional and Public Law and the Roman Law.

E. S. BARRICK, LL.B., Instructor in Municipal Law.

COURSE OF INSTRUCTION.

The course of instruction is so arranged as to be completed in two years. The following is a schedule of the course of study:

JUNIOR YEAR.	SENIOR YEAR.
General Commentaries on Municipal Law.	Equity Jurisprudence.
Contracts.	Pleading.
Real and Personal Property.	Evidence.
Torts.	Practice.
Elements of Pleading and Evidence.	Criminal Law.

Lectures in each year are delivered upon the Civil Law, Medical Jurisprudence, Legal History, Political Science, and other topics illustrative of the above course, and necessary to a thorough and scientific preparation for practice at the bar.

The instruction is by means of text-books and recitations at stated and regular times, supplemented by lectures and oral expositions.

Moot Courts are held regularly each week, and presided over by one of the members of the Faculty, who delivers an opinion upon the cause.

Students who enter at the beginning of the Junior year should be provided with Blackstone's Commentaries, Sharswood's edition; other text-books are announced as they are needed.

A collateral course of reading is recommended, and will be under the advice and direction of members of the Faculty.

Members of either class may attend the exercises of the other.

At the close of each year the classes are examined on the studies of the year.

TERMS OF ADMISSION.

The requisites for admission to the Junior class are that the candidates be of the age of eighteen years and of good moral character. For admission to the Senior class, the requirements are that the applicant be of the age of nineteen years, of good moral character, have studied at some other regular Law School, or with a member of the Bar of a State of the Union for the period of one year, and sustain an examination in the elements of the common law, real property, contracts and torts.

LIBRARIES.

There is a Law Library connected with the school.

The law students will also have access to the general library of the College free of charge, and subject only to such regulations as are applicable to other members of the College.

The Reading Room of the College is supplied with the best newspapers and periodicals of America, England, France and Germany, and with dictionaries, cyclopædias and other works of reference, and will be open to the law students daily, (except Sundays,) without charge.

PRIVILEGES.

Members of the Law Department can attend the lectures of the Professors in the other departments, or join the College classes in any of their recitations, if compatible with other engagements, without charge for tuition.

TERMS.

There will be but one term in each Academic year, commencing on the first Wednesday of October, and ending on the last Wednesday of the April following. The next regular term will commence on Wednesday, October 4th, 1876.

DEGREES.

The degree of LL.B., (Bachelor of Laws,) will be conferred upon graduates by the Trustees of the College upon the recommendation of the Law Faculty, based upon a previous satisfactory examination of the candidates.

EXPENSES, &c.

The tuition fee is $100.00 per annum, payable to the Treasurer of the College, one-half in advance, and one-half on the last day of January.

Boarding and room in private families and other respectable boarding places, may be obtained for prices ranging from $5.00 to $7.00 per week. The cost of text-books during the two years will be about $25.00. Fee for Diploma $5.00.

For further information respecting the Law School, apply to HON. W. S. KIRKPATRICK, *Dean of the Law Department*, Lafayette College, Easton, Pa.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE,

FOR THE

YEAR 1876–1877,

WITH THE COURSES OF STUDY.

EASTON, PA.
1877.

COLLEGE CALENDAR.

1876.

August 31, Thursday.—First term began.
December 20, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1877.

January 4, Thursday.—Second term begins.
January 25, Thursday.—Day of Prayer for Colleges.
February 22, Thursday.—Anniversary of the Washington Literary Society.
March 20, Tuesday.—Junior Orator Contest.
March 21, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 5, Thursday.—Third term begins.
June 11—13.—Final examination of the Senior Class.
June 21—25.—Examination of the lower classes.
June 24, Sunday.—Baccalaureate Sermon.
June 24, Sunday.—Anniversary of the Brainerd Missionary Society.
June 24, Sunday.—Sermon before the Christian Brotherhood.
June 25, Monday.—Senior Class Day and Concert.
June 26, Tuesday.—Reunion Meetings of the Literary Societies.
June 26, Tuesday.—Technical Theses read and defended.
June 26, Tuesday.—Alumni Oration and Social Reunion.
June 26, Tuesday.—Oration before the Literary Societies.
June 27, Wednesday.—Commencement Exercises.
June 28, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

August 28—29, Tuesday and Wednesday.—Examinations for admission.
August 30, Thursday.—First term begins.
October 24, Wednesday.—Founder's Day.
November 26, Monday.—Anniversary of the Franklin Literary Society.
November 29, Thursday.—Thanksgiving Day.
December 19, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1878.

January 3, Thursday.—Second term begins.
March 20, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

GEN. ROBERT PATTERSON, PRESIDENT,	PHILADELPHIA.
REV. S. M. ANDREWS, D.D.,	DOYLESTOWN.
REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
HON. JAMES ROSS SNOWDEN, LL.D.,	PHILADELPHIA.
A. PARDEE,	HAZLETON.
ALFRED MARTIEN,	PHILADELPHIA.
REV. J. H. MASON KNOX, D.D.,	BRISTOL.
THOMAS BEAVER,	DANVILLE.
JOHN WELLES HOLLENBACK,	WILKES BARRE.
WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. McKEEN,	EASTON.
BENJAMIN G. CLARKE,	NEW YORK CITY.
C. DELANO WOOD,	BROOKLYN, N. Y.
HON. G. DAWSON COLEMAN,	LEBANON.
HON. A. G. RICHEY,	TRENTON, N. J.

SAMUEL L. FISLER, SECRETARY AND TREASURER, EASTON, PA.

MEETINGS OF THE TRUSTEES.

Wednesday, October 25, 1876, FOUNDER'S DAY.
Wednesday, January 31, 1877, ANNUAL BUSINESS MEETING.
Tuesday, June 26, 1877, COMMENCEMENT WEEK.

MEMBERS OF THE FACULTY.

REV. WILLIAM C. CATTELL, D.D., PRESIDENT,
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

TRAILL GREEN, M.D., LL.D.,
PROFESSOR OF GENERAL CHEMISTRY.

FRANCIS ANDREW MARCH, LL.D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND COMPARATIVE PHILOLOGY.

REV. JOHN LEAMAN, A.M., M.D.,
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

REV. LYMAN COLEMAN, D.D.,
PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

REV. THOMAS C. PORTER, D.D.,
PROFESSOR OF BOTANY AND ZOOLOGY,
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
PROFESSOR OF MODERN LANGUAGES.

REV. ROBERT BARBER YOUNGMAN, A.M.,
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREDERICK PRIME, JR., A.M.,
PROFESSOR OF METALLURGY AND MINERALOGY.

E. HUBBARD BARLOW, A.M.,
PROFESSOR OF RHETORIC AND ELOCUTION, AND OF PHYSICAL CULTURE.

ROSSITER W. RAYMOND, PH. D.,
LECTURER ON MINING GEOLOGY.

REV. SELDEN JENNINGS COFFIN, PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.
(George Hollenback Professorship of Mathematics.)

JAMES W. MOORE, A.M., M.D.,
PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

JUSTUS MITCHELL SILLIMAN, M.E.,
MARKLE PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

JOSEPH G. FOX, C.E.,
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

THOMAS M. DROWN, M.D.,
ADAMSON PROFESSOR OF ANALYTICAL CHEMISTRY.

REV. ADDISON BALLARD, D.D.,
DOUGLASS PROFESSOR OF CHRISTIAN GREEK AND LATIN.

ARTHUR LATHAM BAKER, C.E.,
ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

JOSEPH JOHNSTON HARDY, A.M.,
ADJUNCT PROFESSOR OF MATHEMATICS.

DAVID BENNETT KING, A.M.,
ADJUNCT PROFESSOR OF LATIN.

WM. BAXTER OWEN, A.M.,
ADJUNCT PROFESSOR OF GREEK.

ANDREW H. CAUGHEY, A.M.,
ADJUNCT PROFESSOR OF LATIN.

JOHN G. DIEFENDERFER, A.M.,
ADJUNCT PROFESSOR OF MODERN LANGUAGES.

WILLIAM S. SWEENY, A.M.,
TUTOR IN CHEMISTRY.

WILLIAM HENRY SCHUYLER, A.M.,
TUTOR IN ANCIENT LANGUAGES.

JOSEPH R. SHIMER, M.E.,
TUTOR IN METALLURGY.

FREDERIC P. DEWEY, PH. B.,
ASSISTANT IN ANALYTICAL CHEMISTRY.

WM. H. WEAVER, Janitor.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1877.

JOHN W. GARRETT,
A. A. DOUGLAS,
JOHN WANAMAKER,
ALEXANDER L. HOLLEY,
HENRY J. WILLIAMS,
H. C. FAHNESTOCK.

Term Expires 1878.

ASHBEL WELSH,
SELDEN T. SCRANTON,
JOHN LEISENRING,
HENRY MCCORMICK,
W. DWIGHT BELL,
HENRY K. SMITH.

Term Expires 1879.

STRICKLAND KNEASS,
P. W. SHEAFER,
FRANK CARTER,
DAVID THOMAS,
ALFRED HAND,
CHARLES PARRISH.

COMMITTEE OF THE ALUMNI.

HON. NATHANIEL B. SMITHERS, President of the Alumni Association, Dover, Del., Class of '36.
C. K. WAGNER, M.D., New York City, Class of '42.
I. N. DILTS, Somerville, N. J., Class of '44.
REV. E. D. JUNKIN, D.D., Brownsburg, Va., Class of '47.
A. R. MCCOY, New York City, Class of '50.
HON. H. G. FISHER, Huntingdon, Class of '55.
REV. G. L. SHEARER, New York City, Class of '57.
J. R. WEEKS, Carmel, N. Y., Class of '59.
S. P. GALT, St. Louis, Class of '60.
I. P. HAND, Wilkes Barre, Class of '65.
H. D. MCKNIGHT, Pittsburgh, Class of '69.
R. W. D. BRYAN, Washington, D. C., Class of '70.
PROF. D. B. KING, Easton, Class of '71.
W. S. SWEENY, Easton, Class of '72.
J. R. SHIMER, Easton, Class of '73.
I. P. PARDEE, Hazleton, Class of '74.
D. W. NEVIN, Easton, Class of '75.
J. B. HENDRY, Easton, Class of '76.

STUDENTS.

REFERENCES.

B.—BLAIR HALL. McK —McKEEN HALL. S.—SOUTH COLLEGE.
E.—EAST HALL. N.—NEWKIRK HALL. †—SPECIAL COURSE.
M.—MARTIEN HALL. P.—POWELL HALL.

RESIDENT GRADUATES.

NAMES.	GRADUATION.	SPECIAL STUDY.
Prof. S. G. Barnes, A.M.,	Lafayette, 1873.	Philology.
J. W. B. Bausman, B. Ph.,	Lafayette, 1874.	Latin.
A. P. Berlin, C.E.,	Lafayette, 1876.	Law.
S. B. Brown, C.E.,	Lafayette, 1876.	Mining Engineering.
J. T. Fuller, C.E.,	Lafayette, 1876.	Mining Engineering.
W. H. Harrison, A.B.,	Lafayette, 1875.	Natural History.
J. B. Heller, Jr., A.B.,	Lafayette, 1874.	Physics.
R. A. Meeker, B.S.,	Rutgers, 1876.	Mining Engineering.
H. D. Michler, B. Ph.,	Lafayette, 1875.	Chemistry.
Rev. R. F. Weidner, A M.,	Muhlenberg, 1869.	Philology.

SENIORS.

NAMES.	RESIDENCES.	ROOMS.
John Bell Alexander,	*Lewistown*,	47 S.
William John Alexander,	*East Liberty*,	43 S.
Walter Lowrie Alexander,	*Moundsville, W. Va.*,	9 P.
William Edgar Baker,	*Elizabeth, N. J.*,	58 N. 2d St.
Charles Heath Bannard,	*Salem, N. J.*,	12 M.
Edwin Clark Beers,	*Phillipsburg, N. J.*,	43 S.
Joseph Edward Bimm,	*Dayton, Ohio*,	20 McK.
James Wilson Bright,	*Lock Haven*,	9 McK.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Asher Davidson Bubb,	*Antes Fort*,	36 S.
Jacob Pennypacker Buckwalter,	*Schwenksville*,	32 S.
John Wesley Codding,	*Towanda*,	7 P.
Thomas Roney Crowell,	*Odessa, Md.*,	322 Spring Garden St.
George Palmer Curtis,	*Hackettstown, N. J.*,	37 S.
David Duncan Davidson,	*Warren*,	20 B.
John Russell Dickson,	*Hunterstown*,	10 M.
Ferdinand Van Derveer Dilts,	*Somerville, N. J.*,	225 N'thampton St.
Mervin Johnson Eckels,	*New Kingston*,	10 M.
Charles Henry Edgar,	*Elizabeth, N. J.*,	13 S.
Albert Cecil Fairchild,	*Newark, N. J.*,	136 N. 2d St.
Edwin John Farber,	*Baltimore, Md.*,	18 McK.
Thomas Chalmers Ferguson,	*Bordentown, N. J.*,	——
Howard Mervin Fisher,	*Elkview*,	18 McK.
Robins Fleming,	*Readington, N. J.*,	27 S.
James Wesley Gilland,	*Shady Grove*,	32 S.
James Tracy Hale,	*Towanda*,	7 P.
Russell B. Harrison,	*Indianapolis, Ind.*,	13 S.
Wm. Piper Smith Henry,	*Everett*,	132 N. 4th St.
Abraham Hogeland,	*Davisville*,	34 S.
Albert Harrison Hogeland,	*Davisville*,	34 S.
Andrew Porter Huey,	*Airy Dale*,	13 McK.
Henry Clay Hunt,	*Poughkeepsie, N. Y.*,	202 Cattell St.
Robert Playford Kennedy,	*Philadelphia*,	17 B.
Edward Joseph Knox,	*Dayton*,	9 N.
John McFarland Leech,	*Saltsburg*,	24 S.
Charles Franklin Lewis,	*Knowlesville, N. Y.*,	27 McK.
Ellis Reuben Lichtenwallner,	*Allentown*,	13 McK.
Edward Wack Long,	*Philadelphia*,	17 N.
Simon Cameron Long,	*Pine Grove*,	11 M.
Oram Howard McAnulty,	*Scranton*,	208 Northampton St.
Henry Mahn McIntire,	*Easton*,	1136 Washington St.
Gilbert N. Marshall, Jr.,	*New York City*;	220 Bushkill St.
Samuel Albert Martin,	*Canonsburg*,	24 S.
Francis Hardy Moore,	*Philadelphia*,	245 Bushkill St.
Frederick Gordon Newton,	*Towanda*,	244 Bushkill St.
James Lawson Patterson,	*Savannah, Ohio*,	33 S.
George Henry Ruggles Plumb,	*Sugar Notch*,	66 N. 3d St.

SENIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Henry Albert Potter,	*Chestnut Hill*,	2 E.
McCluney Radcliff,	*Lewistown*,	9 McK.
James Nelson Ramsey, Jr.,	*Clinton, N. J.*,	208 Northampton St.
Stephen Marion Reynolds,	*Factoryville*,	37 S.
Wallace Berkley Riegner,	*Chambersburg*,	27 S.
James Boyd Risk,	*Philadelphia*,	15 McK.
Jacob Washington Schwartz,	*New York City*,	202 Cattell St.
Harry Omar Scott,	*Confluence*,	24 McK.
John Cresswell Shumaker,	*Chambersburg*,	225 Northampton St.
Benjamin Silver,	*Glenville, Md.*,	4 McK.
Clinton Creveling Snyder,	*Espy*,	136 N. 2d St.
John Bascom Taylor,	*Wyalusing*,	232 Bushkill St.
George Washington Terbush,	*Poughkeepsie, N. Y.*,	208 N'thampton.
James Todd, Jr.	*Indiana*,	322 New St.
William Garvin Trunkey,	*Franklin*,	322 New St.
Frank Newcomb Turner,	*Port Carbon*,	203 McCartney St.
Jacob Peter Uhler,	*Stockertown*,	453 Northampton St.
Richard Marshall Van Horn,	*Hackettstown, N. J.*,	244 Bushkill St.
Lewis Rhoads Walters,	*Phœnixville*,	11 M.
Artemus Crawford Ward,	*Le Roy, N. Y.*,	24 S.
George Miles Wells,	*Easton*,	124 N. 2d St.
Martin Jacob Youngblood,	*Hackettstown, N. J.*,	244 Bushkill St.

SENIORS.....68.

JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
James Arnold Aiman,	*Flourtown*,	214 McCartney St.
Edward Damon Allen,	*Franklin*,	——
Horace Beemer Ayres,	*Allamuchy, N. J.*,	19 N.
Walter James Bradshaw,	*Indianapolis, Ind.*,	——
John Charles Churchill, Jr.,	*Oswego, N. Y.*,	225 Northampton St.
William Gates Coffin,	*Deposit, N. Y.*,	26 McK.
John Davidson Dorris,	*Huntingdon*,	10 McK.
Joseph Edward Durham,	*Dewart*,	8 M.
Alexander Elliott, Jr.,	*Dover, N. J.*,	6 McK.
Wallace Henderson Falls,	*New Castle*,	——
Charles Forney,	*Lebanon*,	231 Cattell St.
Edward Fox,	*Easton*,	107 S. 6th St.
Joel Scobey Gilfillan,	*Parkesburg*,	30 S.
James Johnson Grant,	*Navarre, Ohio*,	33 S.
Jacob Koch Griffith,	*Pittston*,	231 Cattell St.
Samuel S. Hartranft,	*Harrisburg*,	7 M.
Charles Heebner,	*Port Carbon*,	8 P.
Lewis Ahrens Hoffman,	*Reading*,	25 McK.
James Renwick Hogg,	*Philadelphia*,	337 Bushkill St.
Edward Everett Hoyt,	*Kingston*,	27 McK.
James D. Hunter,	*Savannah, Ohio*,	51 S.
Charles Collingwood Jennings,	*Easton*,	39 South 2d St.
Robert Stuart Johnston,	*Greenville*,	9 P.
William Scott Kerr,	*Saltsburg*,	10 N.
Frank Delmar Kinnear,†	*Franklin*,	5 McK.
Harry Knecht,	*Easton*,	25 South 5th St.
Edward Arthur McLaury,	*Monticello, N. Y.*,	13 B.
James Cameron Mackenzie,	*Wilkes-Barre*,	20 McK.
George B. Markle, Jr.,	*Philadelphia*,	14 B.
Charles Dinsmore Marvin,	*Erie*,	5 McK.
William Newton Mateer,	*Shippensburg*,	337 Bushkill St.
Joshua Lewis Miner,	*Wilkes-Barre*,	35 S.
Charles Newton,	*Nicholson*,	22 N.
Charles Thomas Officer,	*Council Bluffs, Ia.*,	216 McCartney St.
Cyrus Simpson Pershing,	*Pittsburg*,	14 S.
Howard Terry Pershing,	*Pottsville*,	14 S.
George Washington Phillips,	*Hyde Park*,	24 N.

JUNIORS—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Samuel Wilberforce Powel,	*Port Kennedy*,	23 N.
Charles Michler Ray,	*Washington, D. C.*,	12 M.
Charles Bement Riggs,	*Elmira, N. Y.*,	2 McK.
George Redsecker Ross,	*Lebanon*,	17 E.
George Washington Sandt,	*Easton*,	302 Cattell St.
Horace Daniel Sassaman,	*Erwinna*,	12 N.
Arch Tanner Scofield,	*Warren*,	8 M.
Charles Payson Gurley Scott,	*Washington, D C.*,	23 E.
James Harvey Scott,	*Elizabeth*,	45 S.
Joshua Rogers Serfass,	*Easton*,	453 Northampton St.
William Lesley Sheafer,	*Pottsville*,	225 Northampton St.
George Vernon Sheffield,	*Newburg, N. Y.*,	——
John Franklin Sheppard,	*Bridgeton, N. J.*,	35 S.
John Maxwell Sherrerd,	*Belvidere, N. J.*,	26 McK.
Porter Wilson Shimer,	*Easton*,	137 McCartney St.
Harry Addis Smith,	*Richboro*,	——
Henry Snyder,	*Easton*,	44 South 7th St.
Alexander Ramsey Speel,	*St. Paul, Minn.*,	330 Sp. Garden St.
John Stengelin, Jr., *	*Easton*,	125 S. 3d St.
Russell Chidsey Stewart,	*Easton*,	123 N. 2d St.
George Washington Stout, Jr.,	*Easton*,	159 Ferry St.
William Broadwell Sullivan,	*Dayton, Ohio*,	337 Bushkill St.
William Philip Taylor,	*Mooresburg*,	15 McK.
John Charles Temple, †	*Dayton, Ohio*,	1 E.
Edwin Teel Walker,	*Strasburg*,	45 S.
Barge Christopher Weidman,	*Lebanon*,	206 Spring Garden St.
Bard Wells,	*Pottsville*,	11 McK.
William Dana Wheeler,	*Oswego, N. Y.*,	341 Northampton St.
John Fremont Williamson,	*Sidney, N. J.*,	11 N.
George Franklin Pierce Young,	*Easton*,	405 Monroe St.
Thomas Oscar Young,	*Easton*,	405 Monroe St.

* Died September 9, 1876.

JUNIORS.....68.

SOPHOMORES.

NAMES.	RESIDENCES.	ROOMS.
Elliott Chidsey Armstrong,	*Philadelphia*,	19 E.
Jacob Edgar Belville,	*Pottsville*,	6 M.
Henry Herrman Bimm,	*Dayton, Ohio*,	20 McK.
Edmund L. Bixler,	*Easton*,	335 Ferry St.
Edward Francis Blewitt,	*Scranton*,	——
Edmund Swalm Boyer,	*Pottsville*,	6 M.
Charles Gibson Brown,	*Huntingdon*,	17 McK.
Augustus James Burgner,	*Delaware City, Del.*,	49 McCartney St.
Frederick Gillett Byles,	*Fredonia*,	12 S.
Reed Caughey,	*Easton*,	130 McCartney St.
Henry Stewart Cavanaugh,	*Easton*,	161 South 3d St.
Sevellon Fowler Channell,†	*Canton*,	47 S.
Charles Anderson Craighead,	*Dayton, Ohio*,	10 McK.
Charles Markley Crawford,	*New Castle*,	202 Northampton St.
Martin Luther Deitzler,	*Reading*,	31 S.
Augustus Theodore Dobson,	*Chester*,	46 S.
Ezra Chalmers Doty,	*Mifflintown*,	——
Herbert Allison Doud,	*Scranton*,	——
Isaac Eckert, †	*Reading*,	6 McK.
Horace Jay Evans,	*Council Bluffs, Iowa*,	200 McCartney St
John Creigh Evans,	*Port Deposit, Md.*,	——
Leonard Bertner Eyster,	*Chambersburg*,	21 S.
John William Flad,	*Easton*,	647 Northampton St.
Irvine Moore Flinn,	*Newport, Del.*,	59 S.
Robert Foresman,	*Johnsonsburg, N. J.*,	23 S.
Edward Coleman Freeman, †	*Cornwall*,	2 E.
Herbert Thomas Gould,	*South Easton*,	Canal St. S. E.
Lewis Grant,	*Shenandoah*,	214 McCartney St.
George Milton Harleman,	*Weatherly*,	12 B.
Francis Heck,	*Paxinos*,	12 S.
Daniel Coyle Herr,	*Harrisburg*,	12 P.
Frank Hinkle,	*Columbia*,	132 N. 4th St.
Stewart Maurice Hohl,	*Easton*,	32 N. 3d St.
Hiram Bacon Howland,	*Indianapolis, Ind.*,	341 N'thampton St.
William John Jones,	*Slatington*,	66 N. 3d St.
George Reed Lawrence,†	*Monongahela City*,	57 S.
John Benjamin Lichtenwallner,	*Allentown*,	47 McCartney St.

SOPHOMORES—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
David Henry Lovell,†	*Altoona*,	24 McK.
Herman Keller McCauley,	*Altoona*,	14 M.
George Davidson McDowell,	*Chambersburg*,	12 McK.
William Henry McIlhany,	*Martin's Creek*,	——
William Hollingsworth Mackall,	*Elkton, Md.*,	14 McK.
Jacob Levi Markel,	*Markelville*,	21 E.
Jacob Truman Martin,	*Allentown*,	——
Edward Patterson Micke,†	*Easton*,	205 Northampton St.
Elwood Andrew Miller,	*Huntingdon*,	17 McK.
Louis Herman Millikan,†	*Washington C.H., O.*,	357 Bushkill St.
Frank Pardee,	*Hazleton*,	12 P.
Robert Pollock Parker,	*Oil City*,	341 Northampton St.
Winfield Lattin Parsons,	*Wilkes-Barre*,	21 McK.
John Douglass Perkins,	*Coatesville*,	——
George Wehn Plack,	*Altoona*,	14 McK.
Hiram Jones Plough,†	*Shippensburg*,	49 McCartney St.
Frank Scott Pusey,	*Council Bluffs, Ia.*,	210 McCartney St.
William Robinson Ross,	*Lebanon*,	17 E.
Samuel Carson Rowland,	*Port Deposit, Md.*,	9 M.
Milton Edward Schadt,	*Ruchsville*,	13 E.
Irwin William Schultz,	*Phillipsburg, N.J.*,	Hudson St.
Herbert Mendelssohn Seem,	*Martin's Creek*,	14 E.
Norcom Linington Seguin,	*New Orleans, La.*,	11 E.
Harvey Shaw,	*Phillipsburg*,	21 N.
James Logan Shiland,	*Southampton, N. Y.*,	200 McCartney.
Benjamin Hoopman Silver,	*Glenville, Md.*,	23 S.
Maxwell Gayley Simpson,	*Parkesburg*,	60 S.
William Irwin Steans,	*Mifflinburg*,	21 S.
William Black Steel,	*Port Deposit, Md.*,	9 M.
Thomas Louis Stoneroad,	*Dunbar*,	25 McK.
William Henry Walters,	*Phillipsburg, N. J.*,	229 Brainerd St.
Hidétaké Taro Yegawa,	*Nirayama, Japan*,	232 Bushkill St.
Reuben Alexander Zimmerman,	*Andersonburg*,	21 E.

SOPHOMORES.....70.

FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Theodore Adams, Jr.,	*Philadelphia*,	13 P.
James Archer, Jr.,	*Denver, Col.*,	19 McK.
Morton Shelly Bailey,	*Wellsboro*,	58 S.
James Woodbridge Barnes,	*Perth Amboy, N. J.*,	31 S.
Frank Barron,*	*Easton*,	671 Northampton St.
Robert Welsted Beers,	*Easton*,	225 Church St.
Charles Webber Bolton,	*Prospect*,	48 S.
William Findlay Brown,	*Dover, Del.*,	44 S.
Jeremiah Murray Burrell,	*Greensburg*,	28 S.
George Washington Bush, Jr.,	*Wilmington, Del.*,	341 Northampton St.
James McKeen Cattell,	*Easton*,	President Cattell's.
Edwin Chamberlain,	*Dunmore*,	50 S.
Charles Clark,	*N. Germantown, N. J.*,	221 Nthampton
William Hiester Clymer, Jr.,	*Temple*,	20 E.
John H. Cooper,	*Brockwayville*,	19 B.
Harry Prather Craig,	*Chambersburg*,	12 McK.
William Simeon Cranz,†	*Akron, Ohio*,	48 S.
Harries Lothane Daddow,	*St. Clair*,	36 S.
Archibald Alexander Dewing,	*Cold Spring, N. J.*,	46 S.
Thomas Frederick Diefenderfer,	*Allentown*,	16 McK.
Clarence Lincoln Drake,	*Easton*,	344 Lehigh St.
Henry Hill Eldridge,	*Shiloh, N. J.*,	15 E.
Josiah Litch Estlin,†	*Philadelphia*,	45 McCartney St.
John Wilson Farquhar,	*Easton*,	1 P.
Levi James Fick,	*Liberty*,	——
John Potts Fillebrown,	*Norfolk, Va.*,	14 P.
Horace Edgar Fiske,	*Trenton, N. J.*,	——
Lewis Wesley Flinn,	*Newport, Del.*,	59 S.
Harry Rogers Forbes,	*Buffalo, N. Y.*,	8 P.
Aaron Goldsmith,	*Easton*,	135 Northampton St.
Frederick Henry Grant,	*Newark, N. J.*,	14 P.
Frederick Green,	*Easton*,	644 Ferry St.
Herbert Miller Hagerman,	*Mount Bethel*,	22 S.
Benjamin Franklin Harris,	*Phillipsburg, N. J.*,	19 McK.
John Smith Hart,	*Pennington, N. J.*,	221 N'thampton St.
Andrew Thomas Hays,	*Emmittsburg, Md.*,	44 S.
Robert Julius Hess,	*Eldredville*,	23 S.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
Frank Wallace Hohl,	*Easton*,	32 N. 3d St.
George Howell,	*Hyde Park*, Cor. N. 4th and Bushkill.	
George Graham Irwin,	*Norristown*,	28 S.
Harry John,	*Audenried*,	38 S.
Asa Sharpe Keeler,	*Keelersburg*,	38 S.
Edwin Kline,	*Alexandria*,	22 E.
Edward Lewers,	*Easton*,	228 Bushkill St.
Clarence Verdi Lichty,	*Lancaster*,	3 McK.
Alexander McClure Lupfer,	*Beavertown*,	13 McK.
James Henry McConkey,	*Wrightsville*,	4 McK.
Joseph Reesman Mann,	*Mill Hall*,	8 McK.
John Markle,	*Philadelphia*,	14 B.
Norton John Martin,	*Allentown*,	10 E.
Alexander Hamilton Miller,	*Allentown*,	——
William Vernon Olyphant,	*Newport, R. I.*,	13 M.
Rubens Peale Patterson,	*Norristown*,	11 McK.
Harry Christopher Pickels,	*Wilmington, Del.*,	22 McK.
Victor Emel Piollet,	*Wysox*,	3 McK.
George Raesly,	*Mount Bethel*,	22 S.
Alva Edwin Rambo,	*Dresden, Ohio*,	——
John Grandin Reading,	*Frenchtown, N. J.*,	10 P.
Ambrose Davies Reese,	*Parsons*,	15 E.
Samuel Stewart Reid,	*Parkesburg*,	60 S.
William Seeger Roland,	*New Holland*,	——
Tadaypaly Veeraragava Roy,†	*Guntoor, India*,	16 S.
Andrew Eliason Sanborn,	*Mt. Pleasant, Del.*,	——
John Milton Scott,†	*New Alexandria*,	51 S.
Robert Walter Sharp,	*Brooklyn, N. Y.*,	33 S.
Elijah McDowell Shoemaker,	*Wilkes-Barre*,	——
Horatio Gates Shull,	*Martin's Creek*,	12 E.
Robert Green Smith,	*Hayesville*,	58 S.
Charles Henry Speakman,	*Coatesville*,	7 M.
Joseph Tetherman Stier,	*Johnsonville*,	109 So. 3d St.
David D. Wagener,	*Easton*,	34 So. 4th St.
Frank Blackiston Watkins,	*Odessa. Del.*,	10 P.
William Guy Wells,	*Pottsville*,	11 McK.
William Ivins Whilldin,	*Philadelphia*,	13 P.

FRESHMEN—CONTINUED.

NAMES.	RESIDENCES.	ROOMS.
William Nelson Wilbur,	*Camden, N. J.*,	16 E.
John Schall Wilhelm,	*Cornwall*,	1 McK.
James Wilson,	*Greenville, Del.*,	28 McK.
Mathew Cooper Woods,	*Boalsburg*,	50 S.
George Lawrence Xander,	*Easton*,	733 Ferry St.
Willie Stewart Young,	*Parkesburg*,	30 S.

* Died October 9, 1876.

FRESHMEN.....80.

SUMMARY.

RESIDENT GRADUATES		10
UNDERGRADUATES,	Seniors	68
	Juniors	68
	Sophomores	70
	Freshmen	80
Total,		296

UNDERGRADUATES BY STATES.

PENNSYLVANIA	196	COLORADO	1
NEW JERSEY	30	LOUISIANA	1
NEW YORK	15	MINNESOTA	1
OHIO	11	RHODE ISLAND	1
DELAWARE	9	WEST VIRGINIA	1
MARYLAND	9	VIRGINIA	1
INDIANA	3	INDIA	1
IOWA	3	JAPAN	1
DISTRICT OF COLUMBIA	2		
			286
		Resident Graduates	10
		Total,	296

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate Course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 Mr. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees, in the presence of His Excellency, Governor Hartranft; the State Superintendent of Education, Hon. J. P. Wickersham, LL.D.; the Synod of Philadelphia, and a great assemblage.* It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand-stone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied, and liberal provision has been made in all the departments of instruction

* The address delivered at the dedication by Professor Raymond, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the studies of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe

and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL.—This course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY.—This course includes text book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and develop the mineral resources of our own and other countries.

POST GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874, and was formally opened for students Oct. 6, 1875. The course of instruction extends through two years, and is designed to furnish a thorough preparation for the practice of the legal profession. (See pp. 46–47.)

TERMS OF ADMISSION.

FRESHMAN CLASS.

Classical Course.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through simple equations; Plane Geometry, two books; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness's Latin Prose Composition (Part I.); Xenophon's Anabasis (entire); the Gospels in the Greek Testament—except Mark; Jones's Greek Prose Composition (12 Lessons); or other authors fully equivalent in quantity to the above.

General Scientific Course.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible. Those who elect the study of Latin are examined in the Latin required for admission to the Classical Course.

Technical Courses.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

Special Studies.—Applicants for instruction in a special study are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTIONS, see pages 30 and 31.

Testimonials.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

Matriculation.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Tertullian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Memorabilia. }
Classical Geography.

Algebra, Loomis's, (continued.)
English Composition.
Lectures on Health.
Coleman's Biblical Geography.
Old Testament in English.

SECOND TERM.

Cyprian. } Elective.
Livy. }
Latin Composition.
Eusebius. } Elective.
Herodotus. }

Geometry, Loomis's, (continued.)
Greek Antiquities.
English Composition.
Coleman's Biblical Geography.
Old Testament in English.

THIRD TERM.

Bible in Latin. } Elective.
Horace. }
Roman Antiquities.
Greek Testament—Mark.
Greek Composition, Boise's.

Algebra, (completed.)
Solid Geometry.
English Composition.
Coleman's Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Horace. } Elective.
Latin Hymns. }
Justin Martyr. } Elective.
Homer, Iliad. }
Greek Composition.

Study of Words, Trench.
Mensuration, Loomis's.
Trigonometry, Plane and Spherical.
Greek Testament—Acts.

SECOND TERM.

Augustine. } Elective.
Cicero, de Oratore. }
Homer, Iliad. } Elective.
Athenagoras. }

Rhetoric.
Conic Sections, Coffin's.
Archæology of Greek Literature and Art.
Greek Testament—Acts.

THIRD TERM.

Plato. } Elective.
Greek Hymns. }
French.
Archæology of Roman Literature and Art.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Demosthenes. } Elective.
Chrysostom. }
Thucydides.
Josephus. } Elective.
Theoretical Mechanics. }
Cicero, Tusculan Disputations. } Elective.
Lactantius. }
German.
Descriptive Mechanics.
Greek Testament—Romans.

SECOND TERM.

Tacitus. } Elective.
Orosius. }
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Physics, (begun.)
Greek Testament—Romans.

THIRD TERM.

Greek Tragedies. } Elective.
Septuagint. }
Physics, (completed.)
Chemistry, with Laboratory practice.
Fowler's English Language.
Anglo-Saxon, (continued.)
English, Shakespeare.
Greek Testament—Romans.

Throughout the Year—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoölogy.
Anatomy and Physiology.
Juvenal and Persius. } Elective.
Boethius. }
English Literature.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology, (begun.)
Mineralogy.
Greek. Modern Languages. } Elective.
Blackstone.
Chemistry.
Astronomy, (completed.)
Hebrew, Green's Grammar.
Evidences of Christianity.

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective.
Philosophy of Mathematics. }
Comparative Philology.
Geology, (completed.)
Architecture.
History.
French. German. } Elective.
Chemistry.
Blackstone.
Hebrew, Chrestomathy.
Butler's Analogy.

Throughout the Year—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Stereotomy. Elementary Drawing.
English, March's Method.
English Composition.
French or Latin.
Chemistry, with Laboratory Practice.
Lectures on Health.
Coleman's Biblical Geography.
Old Testament in English.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
French. German. } Elective.
Latin. }
Chemistry, with Laboratory Practice.
English Composition.
Coleman's Biblical Geography.
Old Testament in English.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Geometrical Drawing.
Modern Languages or Latin.
Mineralogy.
English Composition.
Coleman's Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from French and German, or Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Geometrical Drawing.
French. German. } Elective.
Latin. }
Study of Words, Trench.
English, Bunyan.
Chemistry, (optional.)
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Topographical Drawing, (optional.)
Botany. Zoölogy.
German or Latin.
Rhetoric.
English, Spenser.
Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Botany. Zoölogy.
English, Chaucer.
French. German.
Chemistry, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French or German.
English, Bacon. } Elective.
Chemistry. }
Zoölogy.
Botany.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
Geology.
Anglo-Saxon, March's Grammar and Reader.
English, Milton.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
Geology.
Anglo-Saxon, (continued.)
English, Shakespeare.
French. German or Latin.
New Testament Epistles.

Throughout the Year—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
English Literature.
Modern Languages or Latin.
Modern Literature.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Mineralogy.
Modern Languages. } Elective.
Astronomy, (completed.) }
Chemistry. }
Blackstone. }
Evidences of Christianity.

THIRD TERM.

Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Comparative Philology.
History.
Architecture.
Chemistry. } Elective.
Blackstone. }
Modern Languages. }
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (completed.)
Stereotomy. Elementary Drawing.
Chemistry, with Laboratory Practice.
English.
French.
Lectures on Health.
Coleman's Biblical Geography.
Old Testament in English.

SECOND TERM.

Geometry, (completed.)
Surveying.
Problems in Division of Land.
Drawing, Plane Problems.
Chemistry.
German. French.
Coleman's Biblical Geography.
Old Testament in English.

THIRD TERM.

Trigonometry and Mensuration.
Surveying, Field Work.
Geometrical Drawing.
Analytical Chemistry.
French.
German.
Coleman's Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Geometry, (begun.)
Surveying, Field Work.
Geometrical Drawing.
Mineralogy.
French.
German.
English. Trench on Words.
Acts of the Apostles.

SECOND TERM.

Analytical Geometry, (completed.)
Topographical Drawing.
Chemistry, (optional.)
Botany. Zoölogy.
Mineralogy.
French.
German.
Acts of the Apostles.

THIRD TERM.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoölogy.
Determinative Mineralogy.
French. German.
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Descriptive Geometry, (General Orthographic Projections.)
Surveying, Field Work, Adjustment of Instruments.
Lithology.
Practice with the Blowpipe.
Modern Languages.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Colored Topography.
Geology.
Geodesy.
Hydrographical Surveying.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Geology.
Map of Topographical Survey.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Road Engineering — Surveys and Estimates.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Stability of Structures.
Supply and Distribution of Water.
Strength of Materials.
Political Economy.
Astronomy.
Evidences of Christianity.

THIRD TERM.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
History.
Graduation Theses.
Butler's Analogy.

Throughout the Year.—Themes and Speaking.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING Course.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Lithology.
Mine Surveying.
Analytical Chemistry.
French.
German.
Practice with the Blow-pipe.
New Testament Epistles.

SECOND TERM.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
Geology.
Assaying.
Maps of Surveys.
New Testament Epistles.

THIRD TERM.

Topographical Surveying.
Analytical Chemistry.
Analytical and Applied Mechanics.
Geology.
Map of Topographical Survey.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Mining.
Metallurgy.
Analytical Chemistry.
General Theory of Machines.
Machine Drawing.
Rule of Faith.

SECOND TERM.

Mining. Metallurgy.
Analytical Chemistry.
Machinery and Motors.
Supply and Distribution of Water.
Political Economy.
Evidences of Christianity.

THIRD TERM.

Metallurgy.
Analytical Chemistry.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
Ore Deposits.
History.
Graduation Theses.
Butler's Analogy.

Throughout the Year.—Themes and Speaking.

CHEMICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Chemistry, with Laboratory Practice.
Stereotomy. Elementary Drawing.
Algebra, (completed.)
English. French.
Coleman's Biblical Geography.
Old Testament in English.

SECOND TERM.

Chemistry, with Laboratory Practice.
Drawing, Plane Problems.
Geometry, (completed.)
German and French.
Coleman's Biblical Geography.
Old Testament in English.

THIRD TERM.

Analytical Chemistry.
Trigonometry and Mensuration.
Geometrical Drawing.
German and French.
Coleman's Biblical Geography.
New Testament in English.

Throughout the Year—Declamations and Themes.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Chemistry.
Geometrical Drawing.
Mineralogy.
German and French.
English. Trench on Words.
Acts of the Apostles.

SECOND TERM.

Analytical Chemistry.
Botany and Zoölogy.
Mineralogy.
German.
French.
Acts of the Apostles.

THIRD TERM.

Analytical Chemistry.
Determinative Mineralogy.
French and German.
Botany.
Zoölogy.
Acts of the Apostles.

Throughout the Year—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Practice with the Blow-Pipe.
Lithology.
German.
French.
New Testament Epistles.

SECOND TERM.

Analytical Chemistry.
Practice in Lithology.
Geology.
Physics.
Assaying.
New Testament Epistles.

THIRD TERM.

Analytical Chemistry.
Geology.
Physics.
New Testament Epistles.

Throughout the Year—Declamations, Themes and written Debates.

Text books in Chemistry in the German language are used during the year.

SENIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Physiological Chemistry.
Toxicology.
Rule of Faith.

SECOND TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Political Economy.
Agricultural Chemistry.
Evidences of Christianity.

THIRD TERM.

Analytical Chemistry
Chemical Technology.
Metallurgy.
Gas Analysis.
History.
Graduation Theses.
Butler's Analogy.

Throughout the Year.—Themes and Speaking.

Text books in Chemistry in the German language are used.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or of Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General and Analytical Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass an Examination in Arithmetic, Algebra and the Metric System. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytical Chemistry.

I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them, with drafts, are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, August 30th, 1876.

II. MINING ENGINEERING.

THE SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.	Tunnels.
Exploitation.	Embankments.
Shafts.	Drainings.
Supports.	Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 4th, 1877.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and chemical properties of Iron.	Charges and Yields of Blast Furnaces.
Alloys of Iron.	Bloomeries and Rolling Mills.
Direct Extraction of Malleable Iron from Ores.	Puddling and Reheating.
Blast Furnaces.	Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Chemical Reactions in the Blast Furnace.	Production of Steel by partial Decarburization of Cast Iron.
Blowing Engines, Regulators, Hot Blast.	Production of Steel by Fusion of Pig Iron with Malleable Iron.
On the best Form of Blast Furnace and Details in making the same.	Casting Steel.
Theory and Practice of Fluxes.	Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is mainly occupied with General Chemistry and Analytical Chemistry, Mineralogy and Metallurgy, and is adapted to working Chemists and Miners who do not wish to study Mining Engineering or advanced mathematics.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, August 30th, 1876, and on Thursday, January 4th, 1877.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

For the course in Christian Latin and Greek, see page 35.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Alexander's Moral Science are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Professor Barlow gives a comprehensive course of lectures on Elocution to the Freshman Class, which is followed by systematic instruction and training extending through the whole College course. The students of all the classes are carefully prepared by private rehearsals for their weekly speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.)
	Second Term.	Syntax, (modes.) Prosody, (Greek.)
	Third Term.	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with

the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Chrysostom, Cicero, Boethius, and Plato, in these relations.

Course of Christian Latin and Greek.—The Trustees have been enabled by the munificence of Mr. Benjamin Douglass to establish a course of study in the Latin and Greek of Christian authors. Text-books and teaching are provided in both languages co-extensive with the other Classical Course, so that a student may devote the usual time to the philological study of Greek and Latin, without using any of the heathen writers as text-books. About $1000 have been expended for the increase of the Library in this department during the past year, and a series of text-books is in course of publication.

In 1875–6, the following prizes were given for proficiency in this course:—In the Senior Class, S. A. Besson and W. C. Stull, $50. In the Junior Class, G. W. Terbush, $100; O. H. McAnulty, $50. In the Sophomore Class, C. Heebner, $75; H. D. Sassaman and J. E. Durham, $50. In the Freshman Class, E. C. Armstrong, $75; J. E. Belville and W. I. Steans, $50.

In 1876–7, similar prizes are offered to the Senior, Junior, Sophomore and Freshman Classes.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, German, French, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analysed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL.D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1876 were examined on Tennyson. The prize was awarded to J. S. Freeman. The Class of 1877 will be examined on Bryant.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A.M., of the Class of 1871.

In the Class of 1877 it was awarded to J. L. Patterson.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1876, offered by the London Society of that name, for the best examination in English before Chaucer, was won by W. J. Alexander of 1877, for the best examination in Beowolf.

THE NEW SHAKESPEARE SOCIETY'S PRIZE for 1876, offered by the London Society of that name, for the best examination in Shakespeare, was won by J. L. Patterson of 1877.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun.) } See Physics, p. 38.
	Third Term.	Physics, (completed.)
SENIOR YEAR.	*First Term.*	Astronomy, (begun.)
	Second Term.	Astronomy, (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses, see pages 25 to 29.

Text-books are used as mentioned on pages 21, 22, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1876 it was awarded to C. N. Andrews.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical and Scientific, to a member of the Junior Class. In 1876 these prizes were awarded as follows: in the Classical department to W. J. Alexander, and in the Scientific department to W. B. Riegner.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved by new instruments devised or selected by Professor Moore.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 26–29.

In Physics, as well as in Astronomy, Chemistry, Engineering and Natural History, the studies are illustrated by thirteen hundred wall-charts, many of which give illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 31.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoölogy.
JUNIOR YEAR.	*First and Second Terms.*	Zoölogy. Geology.
SENIOR YEAR.	*First Term.*	Botany. Zoölogy.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures on the connections between Natural Science and Revealed Religion.

In MINERALOGY the classes have the advantages of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 27, 28.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course, as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on the Sabbath. A daily social prayer-meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department, the degree of BACHELOR OF SCIENCE on graduates of the General Scientific Course, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before Commencement. The fee, including diploma, is $6. From those who enter College after January 1st, 1875, this fee will not be required, as it is covered by the matriculation fee, as stated on page 42.

Doctor's Degree.—Graduates of the College of three years standing, and resident students of post-graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING ROOM.

The College Library is open Thursday, Friday, and Saturday, at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at their regular meetings.

The EASTONIAN HALL is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett of Baltimore. There is also a full-length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans of Paris.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY, Professor PORTER, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The CHEMICAL SOCIETY, Professor DROWN, President, meets in Pardee Hall. Papers on chemical or allied subjects are presented and discussed by the members. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of PHYSICS AND ENGINEERING, Professor MOORE, President, has for its object the investigation and discussion of subjects connected with these departments.

The ALUMNI ASSOCIATION is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday preceding Commencement-day.

EXPENSES, &c.

Tuition (to those not on scholarships) in the Classical or General Scientific Course	$15 00	a term.
Tuition in the Technical Courses, or Working Sections	25 00	"
General Expense	5 00	"
Library and Reading Room	2 00	"

The annual College charges are therefore for those who pay tuition in full, sixty-six dollars for the Classical or General Scientific Course, and ninety-six dollars in the Technical Courses. In place of the fees formerly paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, amounting to $15, each student pays $5 when he is registered on entering college, and $10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the use of the laboratory and the aid of the Professor in attendance. Each student will, of course, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board the past year in clubs managed by the students was from $2.75 to $3 15 per week.* Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dollars a term (average $8.) Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and travelling expenses—need not exceed $250, as will be seen from the following summary:

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* There were last year five of these Clubs. The price of board, per week in each, was as follows:—(1) $2 75; (2) (3) and (4) $3.00; (5) $3.15.

COLLEGE CHARGES.

General Expense,	$15 00	
Library and Reading Room,	6 00	
Damages, (if not returned,)	3 00	$24 00

INCIDENTAL EXPENSES.

Fees and dues, Literary and Scientific Societies,	$8 00	
Text-books and Stationery, (estimated)	20 00	$28 00

PERSONAL EXPENSES.

Board for 39 weeks, (at lowest club rates)	$107 25	
Room Rent, (average as above)	24 00	
Fuel, (as above)	6 75	
Light and Washing, (estimated)	24 00	$162 00
		$214 00
Leaving a balance for contingencies,		36 00
Total as above,		$250 00

Board at the highest club rates, $3.15 per week, would add $15.60 to the above estimate, but would still leave, from the two hundred and fifty Dollars, $20.40 for contingencies.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

RECENT ADDITIONS.

The Metallurgical Cabinet has received a complete suite of ores and products from the Quinnimont furnace of West Virginia, the gift of Mr. J. H. Bramwell; also silver and copper ores from Arizona, presented by Mr. G. L. Bradley; a suite of gold and silver ores from Colorado, presented by Dr. W. H. Rice; and a fine suite of magnetic ores from Moriah on Lake Champlain, presented by Mr. Thomas S. Witherbee; also a fine suite of New Jersey magnetic ores, presented by Professor E. S. Moffat.

The Geological Cabinet has received a fine suite of coal fossils from Blair Co., presented by C. Howard Porter; a suite of rocks, coal and fossils from Fall Brook, Tioga Co., presented by Rev. J. Pollock; a suite of ores, lime stones, rocks and fossils from the Lower Silurian Strata of

Lehigh and Northampton Counties, obtained by the second Geological Survey of Pennsylvania; a suite of coal fossils from Schuylkill Co., Pennsylvania, collected by Dr. Porter.

Amongst the many acquisitions of the College Herbarium, during the past year, the following collections are deserving of special acknowledgment: Plants of China, from F. B. Forbes, Esq., and Dr. H. F. Hance of Hong Kong; of Southern Oregon, from Mr. L. W. Lee; of Northern California, from Rev. E. L. Greene; of Kern County, California, from Mr. W. L. Kennedy; of California and Arizona, from Professor J. T. Rothrock; of New Mexico, from Mr. Valentine Friese; of Indiana and Kentucky, from Professor J. M. Coulter; of Central Pennsylvania, from J. R. Lowrie, Esq.; of the White Mountains of New Hampshire, from Mr. W. F. Flint; of Camden and Philadelphia, from Messrs. I. C. Martindale and I. Burk; of South-western Virginia, from Mr. Howard Shriver; and of Florida, from Dr. A. P. Garber—embracing in all over three thousand species.

Valuable additions have also been made to the Zoological department of the Museum.

The Technical collection has received a complete set of fertilizing products from Mr. Daniel Baugh of Philadelphia.

The Hon. Joseph Casey has presented to the Library valuable series of American Annals and State Papers, and of Legal Congressional reports. R. Taylor, D.D., has presented sets of works on Theology. The Library has also received gifts from Superintendent C. P. Patterson, of the Coast Survey, the Treasury Department, the War Department, the Department of the Interior, the Smithsonian Institution, and the U. S. Bureau of Education.

A fund was instituted by the Class of 1871 for the yearly purchase of the new issues of Early English texts.

LAW DEPARTMENT.

A Law Department has been organized by the Trustees of Lafayette College. It was formally opened on Wednesday, October 6th, 1875.

THE FACULTY.

WILLIAM C. CATTELL, D. D., President.

W. S. KIRKPATRICK, A. M., Dean of the Law Department and Professor of Elementary Law and History of Jurisprudence.

MATTHEW HALE JONES, A. M., Professor of Municipal Law.

TRAILL GREEN, M. D., LL D., Professor of Medical Jurisprudence.

FRANCIS A. MARCH, LL.D., Lecturer on Constitutional and Public Law and the Roman Law.

E. S. BARRICK, LL.B., Instructor in Municipal Law.

COURSE OF INSTRUCTION.

The course of instruction is so arranged as to be completed in two years. The following is a schedule of the course of study:

JUNIOR YEAR.	SENIOR YEAR.
General Commentaries on Municipal Law.	Equity Jurisprudence.
Contracts.	Pleading.
Real and Personal Property.	Evidence.
Torts.	Practice.
Elements of Pleading and Evidence.	Criminal Law.

Lectures in each year are delivered upon the Civil Law, Medical Jurisprudence, Legal History, Political Science, and other topics illustrative of the above course, and necessary to a thorough and scientific preparation for practice at the bar.

The instruction is by means of text-books and recitations at stated and regular times, supplemented by lectures and oral expositions.

Moot Courts are held regularly each week, and presided over by one of the members of the Faculty, who delivers an opinion upon the cause.

Students who enter at the beginning of the Junior year should be provided with Blackstone's Commentaries, Sharswood's edition; other text-books are announced as they are needed.

A collateral course of reading is recommended, and will be under the advice and direction of members of the Faculty.

Members of either class may attend the exercises of the other.

At the close of each year the classes are examined on the studies of the year.

TERMS OF ADMISSION.

For admission to the Junior class the candidates must be at least eighteen years old and of good moral character. For admission to the Senior class, the candidates must be at least nineteen years old, of good moral character, have studied at some other regular Law School, or with a member of the Bar of a State of the Union for the period of one year, and sustain an examination in the elements of the common law, real property, contracts and torts.

LIBRARIES.

There is a Law Library connected with the school.

The law students will also have access to the general library of the College free of charge, and subject only to such regulations as are applicable to other members of the College.

The Reading Room of the College is supplied with the best newspapers and periodicals of America, England, France and Germany, and with dictionaries, cyclopædias and other works of reference, and will be open to the law students daily, (except Sundays,) without charge.

PRIVILEGES.

Members of the Law Department can attend the lectures of the Professors in the other departments, or join the College classes in any of their recitations, if compatible with other engagements, without charge for tuition.

TERMS.

There will be but one term in each Academic year, commencing on the first Wednesday of October, and ending on the last Wednesday of the April following.

DEGREES.

The degree of LL.B., (Bachelor of Laws,) will be conferred upon graduates by the Trustees of the College upon the recommendation of the Law Faculty, based upon a previous satisfactory examination of the candidates.

EXPENSES, &c.

The tuition fee is $100.00 per annum, payable to the Treasurer of the College, one-half in advance, and one-half on the last day of January.

Boarding and room in private families and other respectable boarding places, may be obtained for prices ranging from $5.00 to $7.00 per week. The cost of text-books during the two years will be about $25.00. Fee for Diploma $5.00.

For further information respecting the Law School, apply to HON. W. S. KIRKPATRICK, *Dean of the Law Department*, Lafayette College, Easton, Pa.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE

FOR THE

YEAR 1877—1878,

WITH THE COURSES OF STUDY.

EASTON, PA.:
FREE PRESS STEAM JOB PRINT.
1878.

COLLEGE CALENDAR.

1877.

August 30, Thursday.—First term began.
December 19, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1878.

January 3, Thursday.—Second term begins.
January 31, Thursday.—Day of Prayer for Colleges.
February 22, Friday.—Anniversary of the Washington Literary Society.
March 19, Tuesday.—Junior Orator Contest.
March 20, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 4, Thursday.—Third term begins.
June 10—12.—Final examination of the Senior Class.
June 20—24.—Examination of the lower classes.
June 23, Sunday.—Baccalaureate Sermon.
June 23, Sunday.—Anniversary of the Brainerd Missionary Society.
June 23, Sunday.—Sermon before the Christian Brotherhood.
June 24, Monday.—Senior Class Day and Concert.
June 25, Tuesday.—Reunion Meetings of the Literary Societies.
June 25, Tuesday.—Technical Theses read and defended.
June 25, Tuesday.—Alumni Oration and Social Reunion.
June 25, Tuesday.—Oration before the Literary Societies.
June 26, Wednesday.—Commencement Exercises.
June 27, Thursday.—Examinations for Admission.

VACATION OF TEN WEEKS.

September 3—4, Tuesday and Wednesday.—Examinations for Admission.
September 5, Thursday.—First term begins.
October 23, Wednesday.—Founder's Day.
November 26, Tuesday.—Anniversary of the Franklin Literary Society.
November 28, Thursday.—Thanksgiving Day.
December 25, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1879.

January 9, Thursday.—Second term begins.
March 26, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

Major-General ROBERT PATTERSON, *President*,	Philadelphia.
Rev. S. M. ANDREWS, D.D.,	Doylestown.
Rev. DAVID J. WALLER,	Bloomsburg.
Rev. ROBERT HAMILL, D.D.,	Boalsburg.
WILLIAM C. LAWSON,	Milton.
MATTHEW HALE JONES,	Easton.
Rev. SAMUEL F. COLT,	Laporte.
Rev. AARON H. HAND, D.D.,	Palisades, N. Y.
Rev. WILLIAM C. CATTELL, D.D.,	Easton.
A. PARDEE,	Hazleton.
Rev. J. H. MASON KNOX, D.D.,	Bristol.
THOMAS BEAVER,	Danville.
JOHN WELLES HOLLENBACK,	Wilkes Barre.
WILLIAM DORRIS,	Huntingdon.
MORRIS PATTERSON,	Philadelphia.
JOHN CURWEN, M.D.,	Harrisburg.
WILLIAM ADAMSON,	Philadelphia.
THOMAS DICKSON,	Scranton.
THOMAS L. McKEEN,	Easton.
BENJAMIN G. CLARKE,	New York City.
C. DELANO WOOD,	Brooklyn, N.Y.
Hon. G. DAWSON COLEMAN,	Lebanon.
Hon. A. G. RICHEY,	Trenton, N. J.
ALFRED HAND,	Scranton.
JAMES A. McKNIGHT,	Chambersburg.

SAMUEL L. FISLER, *Secretary and Treasurer*, Easton.

MEETINGS OF THE TRUSTEES.

Wednesday, October 24, 1877, Founder's Day.
Wednesday, January 30, 1878, Annual Business Meeting.
Tuesday, June 25, 1878, Commencement Week.

FACULTY.

REV. WILLIAM C. CATTELL, D. D., PRESIDENT,
And Professor of Mental and Moral Philosophy.

TRAILL GREEN, M. D., LL.D.,
Professor of General Chemistry.

FRANCIS ANDREW MARCH, LL.D.,
Professor of the English Language and Comparative Philology.

REV. JOHN LEAMAN, A.M., M.D.,
Professor (Emeritus) of Human Physiology and Anatomy.

REV. LYMAN COLEMAN, D.D.,
Professor of Latin and of Biblical and Physical Geography.

REV. THOMAS C. PORTER, D.D.,
Professor of Botany and Zoology.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
Professor of Modern Languages.

REV. ROBERT BARBER YOUNGMAN, A.M.,
Professor of the Greek Language and Literature.

FREDERICK PRIME, JR., A.M.,
Professor of Metallurgy and Mineralogy.

E. HUBBARD BARLOW, A.M.,
Professor of Rhetoric and Elocution, and of Physical Culture.

ROSSITER W. RAYMOND, PH. D.,
Lecturer on Mining Geology.

REV. SELDEN JENNINGS COFFIN, PH. D.,
Professor of Mathematics and Astronomy.
(George Hollenback Professorship of Mathematics.)

JAMES W. MOORE, A.M., M.D.,
Professor of Mechanics and Experimental Philosophy.

JUSTUS MITCHELL SILLIMAN, M.E.,
George B. Markle Professor of Mining Engineering and Graphics.

JOSEPH G. FOX, C.E.,
Professor of Civil and Topographical Engineering.

THOMAS M. DROWN, M.D.,
William Adamson Professor of Analytical Chemistry.

REV. ADDISON BALLARD, D.D.,
Benjamin Douglass Professor of Christian Greek and Latin.

ARTHUR LATHAM BAKER, C.E.,
Adjunct Professor of Civil Engineering.

JOSEPH JOHNSTON HARDY, A.M.,
Adjunct Professor of Mathematics.

DAVID BENNETT KING, A.M.,
Adjunct Professor of Latin.

WM. BAXTER OWEN, A.M.,
Adjunct Professor of Greek.

ANDREW H. CAUGHEY, A.M.,
Adjunct Professor of Latin.

JOHN G. DIEFENDERFER, A.M.,
Adjunct Professor of Modern Languages.

FRANCIS C. BLAKE, B.S.,
Assistant in Analytical Chemistry.

FRANCIS ANDREW MARCH, LL. D.,
Librarian.

REV. R. B. YOUNGMAN, A. M.,
Clerk of the Faculty.

WM. H. WEAVER, Janitor.

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1878.

ASHBEL WELSH,
SELDEN T. SCRANTON,
JOHN LEISENRING,
HENRY MCCORMICK,
W. DWIGHT BELL,
HENRY K. SMITH.

Term Expires 1879.

STRICKLAND KNEASS,
P. W. SHEAFER,
FRANK CARTER,
DAVID THOMAS,
WALLACE S. AYRES,
CHARLES PARRISH.

Term Expires 1880.

JOHN W. GARRET,
A. A. DOUGLAS,
JOHN WANAMAKER,
ALEXANDER L. HOLLEY,
HENRY J. WILLIAMS,
H. C. FAHNESTOCK.

COMMITTEE OF THE ALUMNI.

Members Ex-Officio.—PRESIDENT, Hon. N. B. Smithers, '36; VICE PRESIDENT, Rev. J. A. Liggett, '57; SECRETARY, Professor Selden J. Coffin, Ph. D., '58; TEMPORARY CLERK, O. Jewell Harvey, Esq., '71.

B. F. Stem, Ph. D., Class of 1838,
Prof. T. C. Porter, D.D., '40,
Prof. C. R. Lane, Ph. D., '43,
Hon. Henry Green, '46,
J. P. Stidham, M.D., '48,
Rev. T. M. Gray, '50,
Rev. David M. James, '52,
E. M. Blanchard, Esq., '56,
Rev. John J. Pomeroy, '57,
Isaac K. Grier, Esq., '58,
Hon. Thomas M'Camant, '61,
Rev. J. Jewett Parks, '62,
Rev. Francis M. Todd, '63,
Charles F. Chidsey, Esq., '64,
Rev. James Roberts, '65,
George R. Kaercher, Esq., '66,
John M. Pfouts, '67,
Charles McIntire, Jr. M.D., '68,
Hon. S. W. DeWitt, '69,
Wm. S. Roney, '70,
John Scollay, Esq., '71,
W. S. Ayres, '72,
Rev. C. E. Burns, '73,
J. R. Williams, '74.

STUDENTS.

POST-GRADUATES.

NAMES.	COLLEGE.	SPECIAL STUDY.
Prof. S. G. Barnes, A.M.,	Lafayette, 1873,	Philology.
W. H. Harrison, A.B.,	Lafayette, 1875,	Natural History.
J. M. Leisse, A.B.,	Ursinus, 1876,	Physics.
H. M. McIntire, M E.,	Lafayette, 1877,	Chemistry.
W. B. Riegner, C.E.,	Lafayette, 1877,	Languages.
Rev. R. F. Weidner, A M ,	Muhlenberg, 1869,	Philology.
C. I. Rader,		Chemistry.

UNDERGRADUATES.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
James Arnold Aiman,	Flourtown,	10 M.
William John Alexander,	Smicksburg,	
Horace Beemer Ayres,	Allamuchy, N. J.,	19 N.
Thomas Budington,	Brooklyn, N. Y.,	
John Charles Churchill, Jr.,	Oswego, N. Y.,	214 Bushkill St.
William Gates Coffin,	Deposit, N. Y.,	11 M.
John Davidson Dorris,	Huntingdon,	10 McK.
Joseph Edward Durham,	Dewart,	8 McK.
Alexander Elliott, Jr ,	Dover, N. J.,	11 P.
Charles Forney,	Lebanon,	231 Cattell St.
Edward Fox,	Easton,	107 S. 6th St.
Joel Scobey Gilfillan,	Parkesburg,	30 S.

James Johnson Grant,	Navarre, Ohio,	33 S.
Jacob Koch Griffith,	Pittston,	231 Cattell St.
Samuel Sebring Hartranft,	Harrisburg,	341 Northampton St.
Charles Heebner,	Port Carbon,	8 P.
Lewis Ahrens Hoffman,	Reading,	2 E.
James Renwick Hogg,	Philadelphia,	337 Bushkill St.
Edward Everett Hoyt,	Kingston,	27 McK.
James D. Hunter,	Savannah, Ohio,	59 S.
Charles Collingwood Jennings,	Easton,	39 South 2d St.
Robert Stuart Johnston,	Greenville,	9 P.
William Scott Kerr,	Saltsburg,	10 N.
Harry Knecht,	Easton,	25 South 5th St.
Edward Arthur McLaury,	Monticello, N. Y.,	13 B.
James Cameron Mackenzie,	Wilkes-Barre,	9 McK.
George Bushar Markle, Jr.,	Philadelphia,	7 P.
Charles Dinsmore Marvin,	Erie,	5 McK.
William Newton Mateer,	Shippensburg,	337 Bushkill St.
Joshua Lewis Miner,	Wilkes-Barre,	9 McK.
Charles Newton,	Nicholson,	
Charles Thomas Officer,	Council Bluffs, Ia.,	17 N.
Howell Terry Pershing,	Pottsville,	4 McK.
George W. Phillips,	Hyde Parke,	22 McK.
Samuel Wilberforce Powel,	Port Kennedy,	28 McK.
Charles Michler Ray,	Washington, D. C.,	12 M.
Charles Bement Riggs,	Elmira, N. Y.,	37 S.
George Redsecker Ross,	Lebanon,	17 E.
George Washington Sandt,	Easton,	302 Cattell St.
Horace Daniel Sassaman,	Erwinna,	12 N.
Charles Payson Gurley Scott,	Washington, D. C.,	23 E.
James Harvey Scott,	Elizabeth,	45 S.
Joshua Rogers Serfass,	Easton,	453 Northampton St.
William Lesley Sheafer,	Pottsville,	214 Bushkill St.
John Franklin Sheppard,	Bridgeton, N. J.,	37 S.
John Maxwell Sherrerd,	Belvidere, N. J.,	11 M.
Porter Wilson Shimer,	Easton,	137 McCartney St.
Henry Snyder,	Easton,	44 South 7th St.
Alexander Ramsey Speel,	St. Paul, Minn.,	330 Sp. Garden St.
Russell Chidsey Stewart,	Easton,	13 S.
George Washington Stout, Jr.,	Easton,	159 Ferry St.
William Broadwell Sullivan,	Dayton, Ohio,	337 Bushkill St.
William Philip Taylor,	Mooresburg,	17 B.

John Charles Temple, †	Dayton, Ohio,	27 McK.
William Garvin Trunkey,	Franklin,	322 New St.
Edwin Teel Walker,	Strasburg,	45 S.
Barge Christopher Weidman,	Lebanon,	206 Spring Garden St.
William Dana Wheeler,	Oswego, N. Y.,	341 Northampton St.
John Fremont Williamson,	Sidney, N. J.,	9 N.
George Franklin Pierce Young,	Easton,	405 Monroe St.
Thomas Oscar Young,	Easton,	405 Monroe St.

SENIORS, - - - - 61.

JUNIOR CLASS.

Elliott Chidsey Armstrong,	Philadelphia,	18 S.
Jacob Edgar Belville,	Pottsville,	6 M.
Henry Herrman Bimm,	Dayton, Ohio,	20 McK.
Edmund Swalm Boyer,	Pottsville,	9 P.
Charles Gibson Brown,	Huntingdon,	17 McK.
Augustus James Burgner,	Delaware City, Del.,	24 N.
Frederick Gillett Byles,	Fredonia,	24 S.
Reed Caughey,	Easton,	130 McCartney St.
Henry Stewart Cavanaugh,	Easton,	161 South 3d St.
Charles Anderson Craighead,	Dayton, Ohio,	10 McK.
Martin Luther Deitzler,	Reading,	31 S.
Augustus Theodore Dobson,	Chester,	46 S.
Isaac Eckert, †	Reading,	10 P.
Horace Jay Evans, †	Council Bluffs, Iowa,	6 M.
Leonard Bertner Eyster,	Chambersburg,	13 McK.
Irvine Moore Flinn,	Newport, Del.,	14 B.
Robert Ogden Fowler, †	Franklin Furnace,	225 Cattell St.
Edward Coleman Freeman, †	Cornwall,	12 McK.
Lewis Grant,	Shenandoah,	10 M.
George Milton Harleman,	Weatherly,	———
Francis Heck,	Paxinos,	24 S.
Frank Hinkle,	Columbia,	206 McCartney St.
Stewart Maurice Hohl,	Easton,	32 N. 3d St.
Hiram Bacon Howland,	Indianapolis, Ind.,	341 N'thampton St.
William John Jones,	Slatington,	58 S.
Frank Delmar Kinnear,	Franklin,	3 McK.
George Read Lawrence,	Monongahela City,	25 McK.
John Benjamin Lichtenwallner,	Allentown,	6 McK.

David Henry Lovell, †	Altoona,	13 P.
Herman Keller McCauley,	Altoona,	14 M.
George Davidson McDowell,	Chambersburg,	12 McK.
William Hollingsworth Mackall,	Elkton, Md.,	13 B.
Jacob Levi Markel.	Markelville,	19 E.
Elwood Andrew Miller,	Huntingdon,	17 McK.
Frank Pardee,	Hazleton,	12 P.
Robert Pollock Parker, †	Oil City,	341 Northampton St.
Winfield Lattin Parsons,	Wilkes-Barre,	21 McK.
George Wehn Plack,	Altoona,	14 M.
Frank Scott Pusey,	Council Bluffs, Ia.,	210 McCartney St.
Samuel Carson Rowland,	Port Deposit, Md.,	9 M.
Milton Edward Schadt,	Ruchsville,	13 E.
Irwin William Schultz,	Phillipsburg, N. J.,	Hudson St.
Herbert Mendelssohn Seem,	Martin's Creek,	14 E.
Norcom Linington Seguin,	New Orleans, La.,	26 McK.
Harvey Shaw,	Phillipsburg,	21 N.
James Logan Shiland,	Southampton, N. Y.,	200 McCartney.
Benjamin Hoopman Silver,	Glenville, Md.,	46 S.
Maxwell Gayley Simpson,	Parkesburg,	20 B.
William Irwin Steans,	Mifflinburg,	13 McK.
William Black Steel,	Port Deposit, Md.,	12 B.
Archibald Thompson Stewart,	Brogueville,	58 S.
Thomas Louis Stoneroad,	Dunbar,	25 McK.
William Henry Walters,	Phillipsburg, N. J.,	229 Brainerd St.
Hidetake Taro Yegawa,	Nirayama, Japan,	232 Bushkill St.
Reuben Alexander Zimmerman,	Andersonburg,	6 McK.

JUNIORS, - - - - 55.

SOPHOMORE CLASS.

Frank Eshleman Bachman,	Strasburg,	12 P.
Morton Shelly Bailey,	Wellsboro,	34 S.
James Woodbridge Barnes,	Perth Amboy, N. J.,	31 S.
Robert Welsted Beers,	Easton,	225 Church St.
Charles Webber Bolton,	Prospect,	48 S.
William Findlay Brown,	Dover, Del.,	34 S.
George Washington Bush, Jr., †	Wilmington, Del.,	341 Northampton St.
William Samuel Cason,	Robinson Station, Ky.,	36 S.
James McKeen Cattell,	Easton,	President Cattell's.

William Hiester Clymer, Jr., †	Temple,	20 E.
John H. Cooper,	Brockwayville,	19 B.
Harry Prather Craig,	Chambersburg,	
William Simon Cranz,	Akron, Ohio,	35 S.
Archibald Alexander Dewing,	Cold Spring, N. J.,	46 S.
Henry Simpson Dickey,	Steeleville,	43 S.
Thos. Frederick Diefenderfer,	Allentown,	16 McK.
Herbert Allison Doud,	Scranton,	16 B.
Clarence Lincoln Drake,	Easton,	344 Lehigh St.
Henry Hill Eldridge,	Shiloh, N. J.,	27 S.
Josiah Litch Estlin,†	Philadelphia,	45 McCartney St.
John Wilson Farquhar,	Easton,	1 P.
Austin Farrell,	Pleasant Mills, N. J.,	18 E.
Levi James Fick,	Liberty,	37 S.
John Potts Fillebrown,	Washington, D. C.,	12 M.
Lewis Wesley Flinn,	Newport, Del.,	15 B.
Harry Rogers Forbes,	Buffalo, N. Y.,	51 S.
Muscoe Minor Gibson,	Norristown,	11 McK.
Aaron Goldsmith,	Easton,	135 Northampton St.
George Blackburn Goodhart,	Reading,	36 S.
Frederick Henry Grant,	Newark, N. J.,	14 P.
Frederick Green,	Easton,	644 Ferry St.
Herbert Miller Hagerman,	Mount Bethel,	22 S.
Benjamin Taylor Hale,	Towanda,	20 McK.
Benjamin Franklin Harris,	Phillipsburg, N. J.,	19 McK.
William Smith Harris,	Cochranville,	43 S.
John Smith Hart,	Pennington, N. J.,	202 N'thampton St.
Andrew Thomas Hays,	Emmittsburg, Md.,	44 S.
Joseph Patrick Henry,	Mansfield, Ohio,	23 N.
Robert Julius Hess,	Eldredville,	22 S.
Frank Wallace Hohl,	Easton,	32 N. 3d St.
George Howell,	Hyde Park,	Cor. N. 4th and Bushkill.
George Graham Irwin,	Norristown,	28 S.
Asa Sharpe Keeler,	Keelersburg,	3 McK.
Edwin Kline,	Alexandria,	16 E.
Clarence Verdi Lichty,	Lancaster,	5 McK.
Alexander McClure Lupfer,	Beavertown,	13 M.
Joseph Reesman Mann,†	Mill Hall,	2 McK.
John Markle,	Philadelphia,	7 P.
Norton John Martin,	Allentown,	8 P.
Otho Nesbitt Miller,	Williamsport,	4 McK.

John Trowbridge Morrison,	Nyack, N. Y.,	15 E.
William Vernon Olyphant,	Newport, R. I.,	13 M.
Rubens Peale Patterson,†	Norristown,	10 E.
Harry Christopher Pickels,	Wilmington, Del.,	7 M.
Victor Emel Piollet,	Wysox,	3 McK.
John Grandin Reading,	Frenchtown, N. J.,	10 P.
Ambrose Davies Reese,	Parsons,	22 N.
Samuel Stewart Reid,	Parkesburg,	44 S.
John Milton Scott,	New Alexandria,	1118 Ferry St.
Robert Walter Sharp,	Brooklyn, N. Y.,	33 S.
Robert Green Smith,	Hayesville,	32 S.
William Wilberforce Smith,	Lacrosse, Wis.,	35 S.
George Wellington Snow,†	Salt Lake City, U. T.,	12 E.
Charles Henry Speakman,	Coatesville,	12 E.
Joseph Tetherman Stier,	Johnsonville,	3 McK.
Frank Jacob Stotzer,	Easton,	15 S. 6th St.
Montrose Graham Tull,	Philadelphia,	59 S.
David Douglass Wagener,	Easton,	34 S. 4th S.
Frank Blackiston Watkins,	Odessa, Del.,	
William Guy Wells,	Pottsville,	20 E.
William Ivins Whilldin,	Philadelphia,	13 P.
William Nelson Wilbur,	Camden, N. J.,	2 McK.
James Wilson,	Greenville, Del.,	7 McK.
Mathew Cooper Woods,	Boalsburg,	19 B.
George Lawrence Xander,	Easton,	733 Ferry St.
William Stewart Young,	Parkesburg,	32 S.

SOPHOMORES, - - - 76.

FRESHMAN CLASS.

Absalom Peter Bachman,	Easton,	612 Ferry St.
Charles Milford Bergstresser,	Berrysburg,	11 N.
John Franklin Biggs,	Summit Bridge, Del.,	47 S.
Henry Birchby,	Philadelphia,	14 S.
Thomas Blatchford Boughton,	Troy, N. Y.,	43 N. 4th St.
James Campbell,	Nanalapan, N. J.,	38 S.
Benjamin Percy Chain,	Norristown,	11 McK.
Edwin Chamberlain,	Dunmore,	51 S.
Julius Tozer Corbin,	Athens,	21 S.

William Dickey Crosby,	Oxford,	30 S.
Franc Miller Dare,	Andover,	683 Walnut St.
Charles William Davenport,	Erie,	1 P.
John Rumsey Davies,	Scranton,	20 S.
Lester Coolidge Dickinson,	Warrensburg, N. Y.,	1 E.
John Selim Ellsworth, †	Rome,	2 E.
William Herbert Emanuel,	Catasauqua,	15 McK.
Charles Conner Evans,	Berwick,	12 S.
Joseph Horn Evans,	Easton,	432 Ferry St.
Harry Crawford Frankenfield,	Easton,	621 Ferry St.
Leonel R. Geisenberger,	Lancaster,	22 E.
Clarence Elmer Griffin,	Easton,	819 Spruce St.
John Henry Grossman,	Salem, N. J.,	21 E.
Andrew Neely Hagerty,	West Alexander,	225 Cattell St.
Joseph Garrison Halsey,	Swedesboro, N. J.,	21 E.
John Milton Ham, †	Washington Hollow, N. Y.,	8 McK.
Charles Walter Hankinson,	Meshoppen,	341 Northampton St.
Ward Beecher Harrison,	Birdsboro,	43 N. 4th St.
John Miller Hayes,	Montoursville,	23 S.
Edward McElwain Haymaker,	Philadelphia,	14 S.
Charles Herpich,	New York City,	14 P.
James Breading Hogg,	Connellsville,	26 McK.
Robert Henry Hoover,	Waynesboro,	35 S.
Henry Budd Howell,	Phillipsburg, N. J.,	537 S. Main St.
David William Humphrey, †	Scranton,	16 B.
Samuel Gulick Hutchison,	Bangor,	19 S.
Dudley Marvin Irwin,	Oswego, N. Y.,	16 B.
George Massey Jones,	Dover, Del,	48 S.
Edwin Luther Kenney,	Griggsville, Ill.,	21 S.
Pearce Kintzing,	Lock Haven,	12 S.
William Koch,	Phillipsburg, N. J.,	359 Lewis St.
Levi Finley Laverty,	Finleyville,	225 Cattell St.
Robert Benjamin Lehman,	Newberne, N. C.,	50 S.
Edward Lewers,	Easton,	228 Bushkill St.
William Levi Littlehales,	Pottsville,	———
William Jones McCarter,	Erie,	10 P.
Albert Clark McCauley,	Altoona,	50 S.
Robert Watson McClelland,	Pittsburgh,	23 S.
David McClure, Jr.,	Oakland, Cal.,	5 E.
John Edmund McConaughy,	Mt. Pleasant,	18 McK.
William Jones Magill,	Erie,	1 P.

Francis Andrew March, Jr.,	Easton,	Prof. March's.
Andrew Ferguson Martin,	Jersey Shore,	14 McK.
Wesley Martin, †	Bloomsbury, N. J.,	551 Main St.
James Henry Maxwell,	Pottstown,	48 S.
Richard McCarty Michler,	Toledo, O.,	14 P.
John Stone Morrison,	Philadelphia,	15 S.
John Jack Neel,	Mt. Pleasant,	18 McK.
George Everett Osterhout,	Tunkhannock,	60 S.
William Emmet Osterhout,	Tunkhannock,	60 S.
Frank Edwin Pellet,	Papakating, N. J.,	19 S.
Edward Leicester Plunkett,	Pittsfield, Mass.,	Mr. Shouse's.
John Howard Reeves,	Philadelphia,	8 M.
Nathan Grube Reiff,	Pottstown,	48 S.
Robert Reading Remington,	Williamsport,	14 P.
Elijah John Richard,	Easton,	56 S.
Irenus Richards,	Easton,	328 Ferry St.
Daniel Rice Rosston,	Philadelphia,	28 S.
Andrew Eliason Sanborn,	Mt. Pleasant, Del.,	47 S.
William Schneider,	Summit Hill,	20 S.
Frank Adois Sedgwick,	Waterford,	56 S.
William Oliver Semple,	Easton,	223 Northampton St.
Alfred Jones Shattuck,	Bloomsburg,	3 E.
Samuel Eakin Shull,	Martin's Creek,	11 E.
Charles Bunstein Stover,	Easton,	217 Northampton St.
Charles Franklin Walter,	Easton,	340 Northampton St.
Edward Overton Ward,	Towanda,	12 M.
Charles Nichols Williams,	Wellsboro,	232 Bushkill St.

FRESHMEN, - - - - 77.

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POST-GRADUATES,		7
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REPRESENTATION.

PENNSYLVANIA,	192	INDIANA,	1
NEW JERSEY,	25	KENTUCKY,	1
NEW YORK,	15	LOUISIANA,	1
DELAWARE,	11	MASSACHUSETTS,	1
OHIO,	9	MINNESOTA,	1
MARYLAND,	5	NORTH CAROLINA,	1
IOWA,	4	RHODE ISLAND,	1
DISTRICT OF COLUMBIA,	3	WISCONSIN,	1
CALIFORNIA,	1	UTAH TERRITORY,	1
ILLINOIS,	1	JAPAN,	1
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ABBREVIATIONS.

B.—Blair Hall.
McK.—McKeen Hall.
S.—South College.
E.—East Hall.
N.—Newkirk Hall.
†—Special Course.
M.—Martien Hall.
P.—Powell Hall.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 Mr. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees.

It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand stone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied, and liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition

to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have, therefore, taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, has been so adapted to the studies of the new course as to give, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the

country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL.—This course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc.; the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING, ENGINEERING AND METALLURGY.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY.—This course includes text book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and develop the mineral resources of our own and other countries.

POST GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874. Further information may be obtained by addressing the Dean of the Law Department, Hon. WILLIAM S. KIRKPATRICK.

TERMS OF ADMISSION.

CLASSICAL COURSE.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, to quadratics; Plane Geometry, two books; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneid); Cicero, seven orations; Harkness's Latin Prose Composition (Part I.); Xenophon's Anabasis (entire); three Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§—or equivalent in Jones's); or other authors fully equivalent in quantity to the above.

GENERAL SCIENTIFIC COURSE.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.. Those who elect the study of Latin are examined in the Latin required for admission to the Classical Course.

TECHNICAL COURSES.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

SPECIAL STUDIES.—Applicants for instruction in a special study are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTIONS, see pages 29 and 30.

TESTIMONIALS.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

MATRICULATION.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Livy.
Memorabilia.
Algebra, Loomis's, (continued.)
English Composition.
Latin Prose Composition.
Lectures on Health.
Classical Geography.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Horace.
Herodotus.
Geometry, Loomis's, (continued.)
English Composition.
Latin Prose Composition.
Greek Antiquities.
Biblical Geography.
Old Testament in English.

THIRD TERM.

Horace.
Athenagoras.
Algebra, (completed.)
Solid Geometry.
Roman Antiquities.
English Composition.
Greek Prose Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Cicero, De Oratore.
Homer, Iliad.
Mensuration, Loomis's.
Trigonometry, Plane and Spherical.
Study of Words, Trench.
Greek Prose Composition.
Greek Testament—Acts.

SECOND TERM.

Latin Hymns.
Homer, Iliad.
Conic Sections, Coffin's.
Rhetoric.
Archæology of Greek Literature and Art.
Greek Testament—Acts.

THIRD TERM.

Plato.
French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Archæology of Roman Literature and Art.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Cicero, Tusculan Disputations.
Demosthenes, De Corona.
Thucydides or Justin Martyr. } Elective.
Theoretical Mechanics. }
Descriptive Mechanics.
German.
Greek History.
Greek Testament—Romans.

SECOND TERM.

Tacitus.
Physics, (begun.)
English, Milton.
Anglo-Saxon, March's Grammar and Reader.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Greek Testament—Romans.

THIRD TERM.

Greek Tragedies.
Physics, (completed.)
English, Shakespeare.
Anglo-Saxon, (continued.)
Fowler's English Language.
Chemistry, with Laboratory practice.
Greek Testament—Romans.

Throughout the Year.—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoology.
Anatomy and Physiology.
Juvenal and Persius. } Elective.
Lactantius. }
Rhetoric. Logic.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed).
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology. Mineralogy.
English Literature.
Blackstone.
Chemistry.
Astronomy, (completed.)
Greek. French or German.
Hebrew, Green's Grammar.
Evidences of Christianity.
} Elective.

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective.
Philosophy of Mathematics. }
Comparative Philology.
Geology, (completed.)
Architecture.
Blackstone.
Chemistry.
Greek. French or German.
Hebrew, Chrestomathy.
History.
Butler's Analogy.
} Elective.

Throughout the Year.—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Elements of Industrial Drawing.
English, March's Method.
English Composition.
French or Latin.
Chemistry, with Laboratory Practice.
Lectures on Health.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
English Composition.
Modern Languages or Latin.
Chemistry, with Laboratory Practice.
Biblical Geography.
Old Testament in English.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Elementary Projections.
Modern Languages or Latin.
Analytical Chemistry.
Mineralogy.
English Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from French and German, or Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Elementary Projections.
Modern Languages or Latin.
Study of Words, Trench.
English, Bunyan.
Analytical Chemistry, (optional.)
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Topographical Drawing, (optional.)
Botany. Zoology.
Modern Languages or Latin.
Rhetoric.
English, Spenser.
Analytical Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying. Loomis's.
Botany. Zoology.
English, Chaucer.
Analytical Chemistry, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French or Latin.
English, Bacon. } Elective.
Chemistry. }

Zoology.
Botany.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
German or Latin.
English, Milton.
Anglo-Saxon, March's Grammar and Reader.

Fowler's English Language.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
English, Shakespeare.
Anglo-Saxon, (continued.)

Fowler's English Language.
French or German.
New Testament Epistles.

Throughout the Year.—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Rhetoric. Logic.
German or Latin.

Modern Literature.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology.
Mineralogy.

Modern Languages. } Elective.
Astronomy, (completed.) }
Chemistry. }
Blackstone. }
English Literature.
Evidences of Christianity.

THIRD TERM.

Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Comparative Philology.
History.
Architecture.

Chemistry. } Elective.
Blackstone. }
Modern Languages. }
Geology.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

TECHNICAL COURSES.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (completed.)
Elemements of Industrial Drawing.
English,
French.
Lectures on Health.
Chemistry, with Laboratory Practice.

SECOND TERM.

Geometry, (completed.)
Surveying.
Problems in Division of Land.
Drawing, Plane Problems.
French.
German.
Chemistry.

THIRD TERM.

Trigonometry and Mensuration.
Surveying, Field Work.
Elementary Projections.
French.
German.
Analytical Chemistry.

Throughout the Year.—Declamations, Themes, and the Bible.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Geometry, (begun.)
Surveying, Field Work.
Elementary Projections.
Mineralogy.
French.
German.
English—Trench on Words.

SECOND TERM.

Analytical Geometry, (completed.)
Topographical Drawing.
Chemistry, (optional.)
Botany. Zoology.
French.
German.
Mineralogy.

THIRD TERM.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoology.
French.
German.
Determinative Mineralogy.

Throughout the Year.—Declamations, Themes, and the Bible.

JUNIOR YEAR.

FIRST TERM.

Descriptive Geometry, (General Orthographic Projections.)
Triangular Surveying; Field Work, Adjustment of Instruments.
French.
Mechanics.
Lithology.
Practice with the Blowpipe.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Geodesy.
Colored Topography.
Hydrographical Surveying.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Road Engineering—Theory.

Throughout the Year.—Declamations, Themes, written Debates, and the Bible.

SENIOR YEAR.

FIRST TERM.

Water Supply.
Road Engineering—Practice.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Strength of Materials.
Stability of Structures.
Supply and Distribution of Water.
Astronomy.
Political Economy.
Geology.
Mineralogy.

THIRD TERM.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
Graphical Statics.
History.
Geology.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING Course.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Mine Surveying. Adjustment of Instruments.
Analytical Chemistry.
French.
Lithology.
Practice with the Blow-pipe.

SECOND TERM.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
German.
Assaying.
Maps of Surveys.

THIRD TERM.

Topographical Surveying.
Map of Topographical Survey.
Analytical Chemistry.
French or German.
Analytical and Applied Mechanics.

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

FIRST TERM.

Mining.
Metallurgy.
Analytical Chemistry.
General Theory of Machines.
Machine Drawing.

SECOND TERM.

Mining. Metallurgy.
Analytical Chemistry.
Machinery and Motors.
Geology. Mineralogy.
Political Economy.
Supply and Distribution of Water.

THIRD TERM.

Metallurgy.
Analytical Chemistry.
Designs for. and Reviews of Special Metallurgical and Mining Operations.
Ore Deposits.
History.
Geology.
Graduation Theses.

Throughout the Year.—Themes, Speaking, and Biblical Studies.

CHEMICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Chemistry, with Laboratory Practice.
Elements of Industrial Drawing.
English. French.
Algebra, (completed.)

SECOND TERM.

Chemistry, with Laboratory Practice.
Drawing, Plane Problems.
German and French.
Geometry, (completed.)

THIRD TERM.

Analytical Chemistry.
Elementary Projections.
German and French.
Trigonometry and Mensuration.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Chemistry.
Elementary Projections.
Mineralogy.
German and French.
English—Trench on Words.

SECOND TERM.

Analytical Chemistry.
Botany and Zoology.
German and French.
Mineralogy.

THIRD TERM.

Analytical Chemistry.
Botany and Zoology.
French and German.
Determinative Mineralogy.

JUNIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Practice with the Blow-Pipe.
French.
Lithology.

SECOND TERM.

Analytical Chemistry.
Assaying.
Physics.
German.
Practice in Lithology.

THIRD TERM.

Analytical Chemistry.
Physics.
French or German.

SENIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Physiological Chemistry.
Toxicology.

SECOND TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Geology.
Mineralogy.
Political Economy.
Agricultural Chemistry.

THIRD TERM.

Analytical Chemistry.
Metallurgy.
Gas Analysis.
Geology.
History.
Graduation Theses.

Throughout the Year.—Themes, Speaking, written Debates, and Biblical Studies. Text books in Chemistry in the German language are used during the Junior and Senior years.

WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS or MINING ENGINEERS without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination upon the previous studies of the course which are essential to a thorough preparation for the special studies of the section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytical Chemistry.

Further information may be obtained by addressing the Dean of the Pardee Scientific Department.

E. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.
Reconnoissance.
Running Preliminary lines.
Maps and Memoirs of same.
Final Location of Road; Grades and Curves.
Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by text-book study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them, with drafts, are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the First Collegiate Term, Thursday, August 30th, 1877.

II. MINING ENGINEERING.

THE SENIOR CLASS of the Engineering Course study and describe certain of the mines near Easton. The work includes—

Access, Roads, Canals.	Tunnels.
Exploitation.	Embankments.
Shafts.	Drainings.
Supports.	Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved, are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 3d, 1878.

III. METALLURGY AND MINERALOGY.

COURSE ON IRON.

Physical and chemical properties of Iron.
Alloys of Iron.
Direct Extraction of Malleable Iron from Ores.
Blast Furnaces.
Chemical Reactions in the Blast Furnace.
Blowing Engines, Regulators, Hot Blast.
On the best Form of Blast Furnace and Details in making the same.
Theory and Practice of Fluxes.
Charges and Yields of Blast Furnaces.
Bloomeries and Rolling Mills.
Puddling and Reheating.
Steel. Production of Steel by the addition of Carbon to Malleable Iron.
Production of Steel by partial Decarburization of Cast Iron.
Production of Steel by Fusion of Pig Iron with Malleable Iron.
Casting Steel.
Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It is preceded by an introductory course on General Metallurgy, and is followed by a course on Lead, Silver, Gold, and other metals. Examinations are made of furnaces near Easton, and written reports upon them with drafts are required.

The course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

IV. CHEMISTRY.

The Laboratories in Pardee Hall are fitted up with all the modern appliances for the use of Students. The COMMON COURSE is mainly occupied with General Chemistry and Analytical Chemistry, Mineralogy and Metallurgy, and is adapted to working Chemists and Miners who do not wish to study Mining Engineering or advanced mathematics.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Alexander's Moral Science are used as text books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the history of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text books, weekly written essays are required, and declamations in class or before the College. Extemporaneous Speaking is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

A comprehensive course of lectures on Elocution, given to the Freshman Class, is followed by systematic instruction and training extending through the whole College course. The students of all the

classes are carefully prepared by private rehearsals for their weekly speaking.

In addition to the regular class speaking of each week, there is held, on the first Wednesday of each month, an exercise at which three speakers from each of the three upper classes appear before an audience consisting of the entire body of students and faculty and invited guests.

In making the appointments, which are purely honorary, for this exercise, regard is had both to natural ability and to faithful work in the regular class speaking.

The Seniors speak original, and the Juniors and Sophomores selected pieces, in the preparation of which extra work is done.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.) Prosody, (Greek.)
	Second Term.	Historical Etymology.
	Third Term.	Syntax, (modes and tenses.)

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at the time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Cicero, and Plato, in these relations.

The text-books of the Douglass series of Christian Greek and Latin writers are used in a part of the course, as follows: Freshman year,

third term, Athenagoras; Sophomore year, second term, Latin Hymns; Junior year, first term, Justin Martyr, (elective;) Senior year, first term, Lactantius, (elective.)

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Crosby's Grammar for drill, Hadley's Grammar and Goodwin's Greek Moods and Tenses for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text books.

English, French, German, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed: the mythology, biography, history, metaphysics, theology, geography are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is pursued in the Classical Course.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL. D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1877 were examined on Bryant. The prize was awarded to J. W. Bright. The Class of 1878 will be examined on Scott.

THE HARVEY PRIZE.—An English prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A.M., of the Class of 1871.

In the Class of 1878 it was awarded to C. P. G. Scott.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1877, offered by the London Society of that name, for the best examination in English before Chaucer, was won by C. P. G. Scott of 1878, for the best examination in Caedmon.

THE NEW SHAKESPEARE SOCIETY'S PRIZE for 1877, offered by the London Society of that name, for the best examination in Shakespeare, was won by C. P. G. Scott of 1878.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE PEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun.) See Physics, p. 35.
	Third Term.	Physics, (completed.)
SENIOR YEAR.	*First Term.*	Astronomy, (begun.)
	Second Term.	Astronomy, (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses see pages 24 to 28.

Text-books are used as mentioned on pages 20, 21, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1877 it was awarded to W. B. Riegner.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical and Scientific, to a member of the Junior Class. In 1877 these prizes were awarded as follows: in the Classical department to C. Heebner, and in the Scientific department to J. M. Sherrerd.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 24–27.

In Physics, as well as in Astronomy, Chemistry, Engineering and Natural History, the studies are illustrated by thirteen hundred wall-charts, many of which give illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course, see page 29.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoology.
JUNIOR YEAR.	*First and Second Terms.*	Zoology. Geology.
SENIOR YEAR.	*First Term.*	Botany. Zoology.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures on the connections between Natural Science and Revealed Religion.

In MINERALOGY the classes have the advantage of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 25, 26.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The lectures in this department are thorough and practical, illustrated by a manikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course, as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel daily, and preaching on the Sabbath. A daily social prayer meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department; the degree of BACHELOR OF SCIENCE on graduates of the General Scientific Course, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two

years the Post Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the Clerk of the Faculty at least two weeks before Commencement. The fee, including diploma, is $6. From those who enter College after January 1st, 1875, this fee will not be required, as it is covered by the matriculation fee, as stated on page 40.

Doctor's Degree.—Graduates of the College of three years standing, and resident students of post graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING ROOM.

The College Library is open Thursday, Friday, and Saturday at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at their regular meetings.

The EASTONIAN HALL is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett of Baltimore. There is also a full length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans of Paris.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two literary Societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY, Professor PORTER, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The CHEMICAL SOCIETY, Professor DROWN, President, meets in Pardee Hall. Papers on Chemical or allied subjects are presented and discussed by the members. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of PHYSICS AND ENGINEERING, Professor MOORE, President, has for its object the investigation and discussion of subjects connected with these departments.

The ALUMNI ASSOCIATION is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected The annual meeting is held on Tuesday preceding Commencement-day.

EXPENSES.

Tuition (to those not on scholarships) in the Classical or General Scientific Course,	$15 00	a term.
Tuition in the Technical Courses, or Working Sections,	25 00	"
General Expenses,	8 00	"
Library and Reading Room,	2 00	"

The annual College charges are therefore, for those who pay tuition in full, $75.00 for the Classical or General Scientific Course; and $105.00 for the Technical Courses. In place of the fees formerly paid at the time of matriculation and of receiving the degree at graduation and the Master's degree, amounting to $15.00, each student pays $5.00 when he is registered on entering college, and $10.00 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the aid of the Professor in attendance; each student will, however, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the Classical Course will hold good for the Pardee Scientific Department, unless the student shall select one of the Technical Courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs managed by the students is from $1.75 to $3.15 per week.* Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dol-

*There are at the present time seven of these Clubs. The price of board per week in each is as follows:—(1) and (2) $1.75; (3) $2.00; (4) $2.75; (5) and (6) $3.00, and (7) $3.15. More than fifty of the students board in the Clubs (1,) (2) and (3) in which the price of board per week is two dollars or less.

lars a term (average $8.) Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance, also the room rent, when the student occupies a room in the College buildings. The Treasurer also, on behalf of the Committee of Students, collects with the College bills, at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and traveling expenses—need not exceed $250, as will be seen from the following summary:

COLLEGE CHARGES.

General Expense,	$24 00	
Library and Reading Room,	6 00	$30 00

INCIDENTAL EXPENSES.

Fees and dues, Literary and Scientific Societies, (estimated)	$ 8 00	
Text-books and Stationery, (estimated)	20 00	$28 00

PERSONAL EXPENSES.

Board for 39 weeks, (at lowest club rates, see note, p. 40)	$68 25	
Room Rent, (average as above)	24 00	
Fuel, (average as above)	6 75	
Light and Washing, (estimated)	24 00	$123 00
		$181 00
Leaving a balance for contingencies,		69 00
Total as above,		$250 00

Board at the highest club rates, $3.15 per week, would add $54.60 to the above estimate, but would still bring the annual expenses within the two hundred and fifty dollars.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

RECENT ADDITIONS.

The Department of Civil Engineering has received during the past year a book of shapes of rolled iron; a complete set of sections of rolled beams, angle, channel and T irons, etc., from the Union Iron Company, of Buffalo, N. Y.; several large Photo-lithographs of bridges, etc., from the Louisville Bridge and Iron Works, Louisville, Ky.; several albums of designs of bridges, roofs, turntables, etc., from the Keystone Bridge Company, Pittsburg, Pa.; several copies of Useful Information for Engineers and Architects, for distribution among the graduates of the Engineering Department, of the Class of '77, from the N. J. Steel and Iron Company, Trenton, N. J.

The Library has received gifts from Major General Robert Patterson, Prof. N. H. Michell, Rev. J. L. Scott, Mrs. Bruce Adams, Mr. B. Douglass, John McLean, D.D., G. T. Kingston, M.A., Mr. Samuel Davinport, The Coast Survey, The Treasury Department, The Secretary of State, The War Department, The Department of the Interior, The U. S. Bureau of Education, The Smithsonian Institute, and the Geological Survey of Pennsylvania.

BEQUESTS AND DEVISES.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

DEGREES

CONFERRED AT THE

LAST ANNUAL COMMENCEMENT, JUNE 27, 1877.

A. B.

John Bell Alexander,
Walter Lowrie Alexander,
Edwin Clark Beers,
James Wilson Bright,
Asher Davidson Bubb,
John Wesley Codding,
George Palmer Curtis,
David Duncan Davidson,
John Russell Dickson,
Mervin Johnson Eckels,
Edwin John Farber,
Howard Mervin Fisher,
James Wesley Gilland,
James Tracy Hale,
Wm. Piper Smith Henry,
Andrew Porter Huey,
Henry Clay Hunt,
Robert Playford Kennedy,
Edward Joseph Knox,
John McFarland Leech,
Ellis Reuben Lichtenwallner,
Oram Howard McAnulty,
Samuel Albert Martin,
Francis Hardy Moore,
McCluney Radcliff,
James Nelson Ramsey, Jr.,
Stephen Marion Reynolds,
James Boyd Risk,
Harry Omar Scott,
John Cresswell Shumaker,
Benjamin Silver,
George Washington Terbush,
James Todd, Jr.,
Frank Newcomb Turner,
Jacob Peter Uhler,
Richard Marshall Van Horn,
George Miles Wells,
Martin Jacob Youngblood,
Arthur Coffin Logan, '76,
John Jay Serfass, '76.

PH. B.

Charles Heath Bannard,
Charles Henry Edgar,
Gilbert N. Marshall, Jr.,
Geo. H. Ruggles Plumb,
Henry Albert Potter,
Artemus Crawford Ward.

C. E.

William Edgar Baker,
Joseph Edward Bimm,
Jacob Pennypacker Buckwalter,
Thomas Roney Crowell,
Robins Fleming,
Abraham Hogeland,
Albert Harrison Hogeland,
Charles Franklin Lewis,
Simon Cameron Long,
Wallace Berkley Riegner,
Clinton Creveling Snyder,
Lewis Rhoads Walters.

M. E.

Albert Cecil Fairchild,
Russell B. Harrison,
Henry Mahn McIntire,
John Torrey Fuller, C. E., '76,
Silas Belden Brown, C. E., '76.

A. M.

J. W. B. Bausman, Pa , '74.
William H. Bayless, M. D., '74.
Rev. E. I. Davies, Pa., '74.
P. C. Evans, Pa., '74.
Jacob B. Heller, Jr., Pa., '74.
Isaac Ott, M. D., Pa., '67.
Dr. W. M. L. Ziegler, Phila., '72.
Conway W. Hillman, Pa., '74.
Dr. Charles J. Nourse, U. S. N.,'74.
Samuel L. Stiver, N. Y., '74.
John R. Williams, Phila., '74.
H. H. Cruikshank, Md., '62.
Rev. W. K. Tully, N. Y., '71.

M. S.

E. R. Case, N. J., '74.
A. L. Fullerton, O., '74.
Clay Kemble, Phila , '74.
I. P. Pardee, N. J., '74.
E. A. Weaver, Pa , '74.
Benjamin Chambers, Pa., '72.

M. A., HONORARY.

Rev. George N. Hair, of the Wyoming Methodist Conference.
Byron F. Marsh, Associate Principal, Oxford, Ohio.
Hon. A. D. Hazen, Third Assistant Postmaster General.

PH. D., HONORARY.

Prof. David M'Clure, Oakland, California.

APPOINTMENTS FOR COMMENCEMENT DAY.

HONORARY ORATIONS EQUAL IN RANK.

James Wilson Bright, - - - *The Latin Salutatory.*
Robins Fleming, - - - - *The Mathematical Oration.*
Wallace Berkley Riegner, - - - *The Philosophical Oration.*
Harry Omar Scott, - - - *The Valedictory.*

ORATIONS.

J. W. Gilland, *Classical.*
A. H. Hogeland, *Scientific.*
S. M. Reynolds, *Philological.*
John Bell Alexander,
Edwin Clark Beers,
Jacob Pennypacker Buckwalter,
John Russell Dickson,
Merwin Johnson Eckels,
Edwin John Farber,
Abraham Hogeland,
John McFarland Leech,
John Cresswell Shumaker,
Benjamin Silver,
George Washington Terbush,
Jacob Peter Uhler,
George Miles Wells.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE

FOR THE

YEAR 1878–1879,

WITH THE COURSES OF STUDY.

EASTON, PA.:
FREE PRESS STEAM BOOK AND JOB PRINT.
1879.

College Calendar.

1878.

September 5, Thursday.—First term began.
December 25, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1879.

January 9, Thursday.—Second term begins.
January 30, Thursday.—Day of Prayer for Colleges.
February 22, Saturday.—Anniversary of the Washington Literary Society.
March 19, Wednesday.—Junior Orator Contest.
March 26, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 10, Thursday.—Third term begins.
June 16–18.—Final examination of the Senior Class.
June 26–30.—Examination of the lower classes.
June 29, Sunday.—Baccalaureate Sermon.
June 29, Sunday.—Anniversary of the Brainerd Missionary Society.
June 29, Sunday.—Sermon before the Christian Brotherhood.
June 30, Monday.—Senior Class Day and Concert.
July 1, Tuesday.—Reunion Meetings of the Literary Societies.
July 1, Tuesday.—Technical Theses read and defended.
July 1, Tuesday.—Alumni Oration and Social Reunion.
July 1, Tuesday.—Oration before the Literary Societies.
July 2, Wednesday.—Commencement Exercises.
July 3, Thursday.—Examinations for Admission.

VACATION OF NINE WEEKS.

September 2–3, Tuesday and Wednesday.—Examinations for Admission.
September 4, Thursday.—First term begins.
October 22, Wednesday.—Founder's Day.
November 26, Wednesday.—Anniversary of the Franklin Literary Society.
November 27, Thursday.—Thanksgiving Day.
December 24, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1880.

January 8, Thursday.—Second term begins.
March 24, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

MAJOR-GENERAL ROBERT PATTERSON, *President*,	PHILADELPHIA.
REV. S. M. ANDREWS, D.D.,	DOYLESTOWN.
REV. DAVID J. WALLER,	BLOOMSBURG.
REV. ROBERT HAMILL, D.D.,	BOALSBURG.
WILLIAM C. LAWSON,	MILTON.
MATTHEW HALE JONES,	EASTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D.D.,	PALISADES, N. Y.
REV. WILLIAM C. CATTELL, D.D.,	EASTON.
A. PARDEE,	HAZLETON.
REV. J. H. MASON KNOX, D.D.,	BRISTOL.
THOMAS BEAVER,	DANVILLE.
JOHN WELLES HOLLENBACK,	WILKES BARRE.
WILLIAM DORRIS,	HUNTINGDON.
MORRIS PATTERSON,*	PHILADELPHIA.
JOHN CURWEN, M.D.,	HARRISBURG.
WILLIAM ADAMSON,	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. McKEEN,	EASTON.
BENJAMIN G. CLARKE,	NEW YORK CITY.
C. DELANO WOOD,	BROOKLYN, N. Y.
HON. G. DAWSON COLEMAN,†	LEBANON.
HON. A. G. RICHEY,	TRENTON, N. J.
ALFRED HAND,	SCRANTON.
JAMES A. McKNIGHT,	CHAMBERSBURG.

SAMUEL L. FISLER, *Secretary and Treasurer*, EASTON.

MEETINGS OF THE TRUSTEES.

Wednesday, October 23, 1878, FOUNDER'S DAY.
Wednesday, January 29, 1879, ANNUAL BUSINESS MEETING.
Tuesday, July 1, 1879, COMMENCEMENT WEEK.

*Died October 23, 1878.

†Died September 9. 1878.

FACULTY.

REV. WILLIAM C. CATTELL, D.D., LL.D., PRESIDENT,
And Professor of Mental and Moral Philosophy.

TRAILL GREEN, M.D., LL.D.,
Professor of General Chemistry.

FRANCIS ANDREW MARCH, LL.D.,
Professor of the English Language and Comparative Philology.

REV. JOHN LEAMAN, A.M., M.D.,
Professor (Emeritus) of Human Physiology and Anatomy.

REV. LYMAN COLEMAN, D.D.,
Professor of Latin and of Biblical and Physical Geography.

REV. THOMAS C. PORTER, D.D.,
Professor of Botany and Zoology.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
Professor of Modern Languages.

REV. ROBERT BARBER YOUNGMAN, A.M.,
Professor of the Greek Language and Literature.

FREDERICK PRIME, JR., A.M.,
Professor of Metallurgy and Mineralogy.

E. HUBBARD BARLOW, A.M.,
Professor of Rhetoric and Elocution, and of Physical Culture.

ROSSITER W. RAYMOND, PH. D.,
Lecturer on Mining Geology.

REV. SELDEN JENNINGS COFFIN, PH. D.,
Professor of Mathematics and Astronomy.
(George Hollenback Professorship of Mathematics.)

JAMES W. MOORE, A.M., M.D.,
Professor of Mechanics and Experimental Philosophy.

JUSTUS MITCHELL SILLIMAN, M.E.,
George B. Markle Professor of Mining Engineering and Graphics.

JOSEPH G. FOX, C.E.,
Professor of Civil and Topographical Engineering.

THOMAS M. DROWN, M.D.,
William Adamson Professor of Analytical Chemistry.

REV. ADDISON BALLARD, D.D.,
Benjamin Douglass Professor of Christian Greek and Latin.

ARTHUR LATHAM BAKER, C.E.,
Adjunct Professor of Civil Engineering.

JOSEPH JOHNSTON HARDY, A.M.,
Adjunct Professor of Mathematics.

DAVID BENNETT KING, A.M.,
Adjunct Professor of Latin.

WM. BAXTER OWEN, A.M.,
Adjunct Professor of Greek.

ANDREW H. CAUGHEY, A.M.,
Adjunct Professor of Latin.

JOHN G. DIEFENDERFER, A.M.,
Adjunct Professor of Modern Languages.

FRANCIS C. BLAKE, B.S.,
Adjunct Professor of Analytical Chemistry.

EDWARD HART, B.S.,
Adjunct Professor of General Chemistry.

FRANCIS ANDREW MARCH, LL.D.,
Librarian.

REV. R. B. YOUNGMAN, A.M.,
Clerk of the Faculty.

WM. H. WEAVER, *Janitor.*

BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

Term Expires 1879.

STRICKLAND KNEASS,
P. W. SHEAFER,
CHARLES O. BAIRD,
DAVID THOMAS,
WALLACE S. AYRES,
HORACE BROCK.

Term Expires 1880.

JOHN W. GARRETT,
A. A. DOUGLAS,
JOHN WANAMAKER,
ALEXANDER L. HOLLEY,
HENRY J. WILLIAMS,
H. C. FAHNESTOCK.

Term Expires 1881.

ASHBEL WELSH,
SELDEN T. SCRANTON,
JOHN LEISENRING,
HENRY MCCORMICK,
CHARLES B. DUDLEY,
HENRY K. SMITH.

COMMITTEE OF THE ALUMNI.

MEMBERS EX-OFFICIO.—*President.* Hon. N. B. SMITHERS, LL.D., '36; *Vice-President*, Rev. CHARLES WOOD, '46; *Secretary*, Professor SELDEN J. COFFIN, Ph. D., '58; *Temporary Clerk*, O. JEWELL HARVEY, Esq., '71.

Rev. SAMUEL DICKEY, '37,
EDWARD F. STEWART, '39,
Rev. DARWIN COOK, '42,
Rev. W. S. PARSONS, '45,
Rev. CHARLES J. JONES, '46,
Hon. O. H. MEYERS, '47,
Rev. R. B. FORESMAN, '48,
THOMAS G. GAYLEY, '53,
Hon. H. HAMBURGHER, '56,
Dr. S. G. BLYTHE, '60,
Rev. J. M. NOURSE, '62,
Dr. O. H. ALLIS, '64,
Rev. W. W. HEBERTON, '65,
J. WHIT. WOOD, '66,
Dr. R. J. HESS, '67,
Dr. C. MCINTIRE, '68,
W. S. RONEY, '70,
Prof. W. B. OWEN, '71,
Rev. JAMES I. GOOD, '72,
Prof. S. G. BARNES, Ph. D., '73,
J. W. B. BAUSMAN, '74,
W. S. HETRICK, '75.

STUDENTS.

POST-GRADUATES.

NAMES.	COLLEGE.	SPECIAL STUDY.
J. B. Hendry, Ph. B., LL.B.,	Lafayette, 1876,	Philology.
W. S. Kent, C.E.,	Lafayette, 1871,	Chemistry.
T. J. Martin, M.D.,	University of Pennsylvania, Medical Depart., 1878,	Chemistry.
M. Radcliffe, A.B.,	Lafayette, 1877,	Chemistry.
J. M. Shererd, M.E.,	Lafayette, 1878,	Chemistry.

UNDERGRADUATES.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Elliott Chidsey Armstrong,	Easton,	40 N. 3d St.
Jacob Edgar Belville,	Pottsville,	9 McK.
Henry Herrman Bimm,	Dayton, Ohio,	20 McK.
Edmund Swalm Boyer,	Pottsville,	9 P.
Charles Gibson Brown,	Huntingdon,	28 McK.
Augustus James Burgner,	Delaware City, Del.,	24 N.
Frederick Gillett Byles,	Fredonia,	12 M.
Reed Caughey,	Erie,	130 McCartney St.
Henry Stewart Cavanaugh,	Easton,	
Charles Anderson Craighead,	Dayton, Ohio,	10 McK.
Martin Luther Deitzler,	Reading,	31 S.
Augustus Theodore Dobson,	Chester,	13 S.
James Elliott,	Plainfield,	49 S.

Leonard Bertner Eyster,	Chambersburg,	13 McK.
Irvine Moore Flinn,	Newport, Del.,	14 B.
Robert Ogden Fowler,†	Franklin Furnace,	225 Cattell St.
Lewis Grant,	Shenandoah,	10 M.
Francis Heck,	Paxinos,	24 S.
Frank Whitehill Hinkle,	Columbia,	206 McCartney St.
Stewart Maurice Hohl,	Easton,	32 N. 3d St.
Hiram Bacon Howland,	Indianapolis, Ind.,	341 Northampt'n St.
William John Jones,	Slatington,	46 S.
Frank Delmar Kinnear,	Franklin,	5 McK.
George Read Lawrence,	Monongahela City,	27 McK.
John Benjamin Lichtenwallner,	Allentown,	12 M.
Herman Keller McCauley,	Altoona,	11 M.
George Davidson McDowell,	Chambersburg,	12 McK.
William Hollingsworth Mackall,	Elkton, Md.,	13 B.
Jacob Levi Markel,	Markelville,	58 S.
Frank Pardee,	Hazleton,	12 P.
Winfield Lattin Parsons,	Wilkes-Barre,	20 S.
George Wehn Plack,	Altoona,	11 M.
Milton Edward Schadt,	Ruchsville,	13 E.
Irwin William Schultz,	Phillipsburg, N. J.,	Hudson St.
Herbert Mendelssohn Seem,	Martin's Creek,	14 E.
Norcom Linington Seguin,	New Orleans, La.,	9 McK.
Harvey Shaw,	Phillipsburg,	21 N.
Benjamin Hoopman Silver,	Glenville, Md.,	13 S.
Maxwell Gayley Simpson,	Parkesburg,	20 B.
William Irwin Steans,	Mifflinburg,	13 McK.
William Black Steel,	Port Deposit, Md.,	12 B.
Archibald Thompson Stewart,	Brogueville,	51 S.
Thomas Louis Stoneroad,	Dunbar,	27 McK.
William Henry Walters,	Phillipsburg, N. J.,	229 Brainerd St.
Hidetake Taro Yegawa, *	Nirayama, Japan,	116 N. 3d St.
Reuben Alexander Zimmerman,	Andersonburg,	58 S.

SENIORS, - - - - 46.

JUNIOR CLASS.

Frank Eshleman Bachman,	Strasburg,	12 P.
Morton Shelly Bailey,	Wellsboro,	34 S.
James Woodbridge Barnes,	Perth Amboy, N. J.,	31 S.
Robert Welsted Beers,	Easton,	225 Church St.
Charles Webber Bolton,†	Prospect,	33 S.
William Findlay Brown,	Dover, Del.,	34 S.
William Samuel Cason,	Robinson Station, Ky.,	16 B.
James McKeen Cattell,	Easton,	President Cattell's.
John H. Cooper,	Brockwayville,	59 S.
William Simon Cranz,	Akron, Ohio,	16 S.
Archibald Alexander Dewing,	Cold Spring, N. J.,	23 McK.
Hervey Simpson Dickey,	Steeleville,	30 S.
Thos. Frederick Diefenderfer,	Allentown,	16 McK.
Herbert Allison Doud,	Scranton,	10 P.
Clarence Lincoln Drake,†	Easton,	344 Lehigh St.
Henry Hill Eldridge,	Shiloh, N. J.,	27 S.
John Wilson Farquhar,	Easton,	6 P.
Austin Farrell,	Pleasant Mills, N. J.,	18 E.
Levi James Fick,	Liberty,	27 S.
John Potts Fillebrown,	Washington, D. C.,	12 McK.
Lewis Wesley Flinn,	Newport, Del.,	15 B.
Harry Rogers Forbes,	Buffalo, N. Y.,	51 S.
Muscoe Minor Gibson,	Norristown,	11 McK.
Aaron Goldsmith,	Easton,	135 Northampton St.
George Blackburn Goodhart,	Reading,	200 Cattell St.
Frederick Green,	Easton,	644 Ferry St.
Herbert Miller Hagerman,	Mount Bethel,	33 S.
William Smith Harris,	Cochranville,	59 S.
John Smith Hart,	Pennington, N. J.,	202 Northampt'n St.
Andrew Thomas Hays,	Emmittsburg, Md.,	44 S.
Joseph Patrick Henry,	Mansfield, Ohio,	10 N.
Robert Julius Hess,	Eldredville,	22 S.
Frank Wallace Hohl,	Easton,	32 N. 3d St.

Edwin Kline,	Alexandria,	16 E.
Alexander McClure Lupfer,	Beavertown,	37 S.
John Markle,	Philadelphia,	7 P.
Norton John Martin,	Allentown,	8 P.
Otho Nesbitt Miller,	Williamsport,	17 N.
John Trowbridge Morrison,	Nyack, N. Y.,	13 M.
William Vernon Olyphant,	Newport, R. I.,	13 M.
John Grandin Reading,	Frenchtown, N. J.,	9 P.
Ambrose Davies Reese,	Parsons,	22 N.
Samuel Stewart Reid,	Parkesburg,	44 S.
John Milton Scott,	New Alexandria,	
Robert Walter Sharp,	Brooklyn, N. Y.,	237 Northampton St.
Robert Green Smith,	Hayesville,	32 S.
William Wilberforce Smith,	Lacrosse, Wis.,	16 B.
George Wellington Snow,†	Salt Lake City, U. T.,	50 S.
Joseph Tetherman Stier,	Johnsonville,	109 S. 3d St.
Frank Jacob Stotzer,†	Easton,	15 S. 6th St.
Montrose Graham Tull,	Philadelphia,	19 McK.
David Douglass Wagener,	Easton,	34 S. 4th St.
William Guy Wells,	Pottsville,	22 McK.
William Ivins Whilldin,	Philadelphia,	6 M.
William Nelson Wilbur,	Camden, N. J.,	249 Bushkill St.
Mathew Cooper Woods,	Boalsburg,	19 B.
George Lawrence Xander,	Easton,	733 Ferry St.
William Stewart Young,	Parkesburg,	30 S.

JUNIORS, - - - - 58.

SOPHOMORE CLASS.

Absalom Peter Bachman,	Easton,	1152 Northampton St.
William Smith Barnes,	Waynesboro,	35 S.
Charles Milford Bergstresser,	Berrysburg,	23 N.
John Franklin Biggs,	Summit Bridge, Del.,	14 M.
Henry Gough Birchby,	Philadelphia,	14 S.
Thomas Blatchford Boughton,	Troy, N. Y.,	Prof. Silliman's.
Charles Edward Bullock,†	Canton,	63 N. 3d St.
James Campbell,	Manalapan, N. J.,	38 S.
Benjamin Percy Chain,†	Norristown,	11 McK.
Frank Herring Chalfant,	Martin's Ferry, O.,	200 McCartney St.
William Parker Chalfant,	Martin's Ferry, O.,	200 McCartney St.

Edwin Chamberlain,	Dunmore,	———
Thomas Culbertson Clark,	Martin's Ferry, O.,	200 McCartney St.
Robert Merritt Collins,	St. Clairsville, Ohio,	20 E.
Julius Tozer Corbin,	Athens,	19 S.
William Dickey Crosby,	Oxford,	32 S.
Franc Miller Dare,†	Andover, N. J.,	5 E.
Charles William Davenport,	Erie,	11 P.
John Rumsey Davies,	Scranton,	38 S.
Lester Coolidge Dickinson,	Warrensburg, N. Y.,	17 E.
John Selim Ellsworth,†	Rome,	22 S.
William Herbert Emanuel,	Catasauqua,	15 McK.
Charles Conner Evans,	Berwick,	9 N.
Joseph Horn Evans,	Easton,	432 Ferry St.
Harry Crawford Frankenfield,	Easton,	1042 Lehigh St.
Clarence Elmer Griffin,	Easton,	819 Spruce St.
John Henry Grossmann,	Salem, N. J.,	15 E.
Andrew Neely Hagerty,	West Alexander,	41 McCartney St.
Joseph Garrison Halsey,†	Swedesboro, N. J.,	21 E.
John Milton Ham,†	Washington Hollow, N. Y.,	3 McK.
Joseph Harvey Harrison,	Pittsburgh,	2 McK.
John Miller Hayes,	Montoursville,	45 S.
Edward McElwain Haymaker,	Philadelphia,	57 S.
James Breading Hogg,	Connellsville,	49 S.
Robert Henry Hoover,	Waynesboro,	35 S.
Henry Budd Howell,	Phillipsburg, N. J.,	537 S. Main St.
David William Humphrey,†	Scranton,	10 P.
Samuel Gulick Hutchison,	Bangor,	47 S.
Dudley Marvin Irwin,	Oswego, N. Y.,	———
George Massey Jones,	Dover, Del.,	37 S.
Edwin Luther Kenney,	Griggsville, Ill.,	21 S.
Pearce Kintzing,	Lock Haven,	12 S.
William Koch,	Phillipsburg, N. J.,	359 Lewis St.
Clarence Reid Laird,	Wheeling, W. Va.,	214 Bushkill St.
Levi Finley Laverty,	Finleyville,	22 E.
Robert Benjamin Lehman,	Newberne, N. C.,	50 S.
Edward Lewers,	Easton,	228 Bushkill St.
Albert Clark McCauley,	Altoona,	16 S.
Robert Watson McClelland,	Pittsburgh,	45 S.
David McClure, Jr.,	Oakland, Cal.,	23 McK.
Albert Wylie McConnell,†	Pittsburgh,	2 McK.
George King McCormick,	Shippensburg,	10 S.

Samuel Edward Magill,†	Erie,	13 P.
William Jones Magill,†	Erie,	13 P.
Francis Andrew March, Jr.,	Easton,	Prof. March's.
James Henry Maxwell,	Pottstown,	37 S.
Richard McCarty Michler,†	Toledo, Ohio,	7 M.
John Stone Morrison,	Philadelphia,	15 S.
John Jack Neel,	Mt. Pleasant,	18 McK.
George Everett Osterhout,	Tunkhannock,	60 S.
William Emmet Osterhout,	Tunkhannock,	60 S.
Frank Edwin Pellet,	Papakating, N. J.,	47 S.
George Reginald Radford,	Washington D. C.,	20 McK.
John Howard Reeves,†	Philadelphia,	8 M.
Nathan Grube Reiff,	Pottstown,	37 S.
Robert Reading Remington,	Williamsport,	14 P.
Elijah John Richards,	Easton,	56 S.
William N. Ruby,	Perrysville, Ohio,	12 N.
Andrew Eliason Sanborn,	Mt. Pleasant, Del.,	14 M.
William Schneider,	Summit Hill,	21 McK.
Edwin Livingston Scott,	Washington, D. C.,	23 E.
Frank Adois Sedgwick,	Waterford,	———
William Oliver Semple,	Easton,	223 Northampton St.
Alfred Jones Shattuck,	Bloomsburg,	11 E.
Samuel Eakin Shull,	Martin's Creek,	———
Edward Rheem Sponsler,	New Bloomfield,	17 McK.
Charles Bunstein Stover,	Easton,	217 Northampton St.
Charles Richard Truitt,†	Hillsboro, Ill.,	17 B.
Charles Franklin Walter,†	Easton,	340 Northampton St.
Charles Nichols Williams,	Wellsboro,	114 North 3d St.
Edward Williamson,	Bedford, N. Y.,	———
Charles Lissle Wilson,	Carthage, Mo.,	36 S.
James Wilson,	Greenville, Del.,	7 M.

SOPHOMORES, - - - - 83.

FRESHMAN CLASS.

George Auchy,	Pottstown,	43 S.
Albert Hosmer Baker,†	Jackson Summit,	10 E.
John Townsend Baker,	Easton,	Prof. Baker's.
Benjamin Stanley Banks,	Norristown,	18 McK.
Nathan Wallace Beddall,	Port Carbon,	8 M.

Milton Jacob Bliem,	Shamokin,	5 Bank St.
Charles Stratton Boulton,	Oil City,	56 S.
Robert Henry Agnew Boyd,	Belvidere, N. J.,	1 E.
John Dawson Boyle, Jr.,	Uniontown,	3 McK.
Jacob Peter Breidinger,	Stockertown,	665 Ferry St.
John Wright Campbell,	Altoona,	13 P.
Percival Carskaddon,	Lock Haven,	22 S.
William Edward Coleman,	Schooley's Mountain, N. J.,	7 E.
Frank Philip Collier,	Stewartsville, N. J.,	6 M.
Don Carlos Corbett,	Clarion,	8 McK.
Harries Lothane Daddow,	St. Clair,	6 McK.
Lewis Redner Dalrymple,	Lock Haven,	12 S.
Edward Davis,	Milton,	34 McK.
James Frear Day,	Tunkhannock,	11 N.
James Clifton Edgar,	New York City,	40 N. 3d St.
Frederick Vanduzor Frisbie,	Orwell,	22 S.
John M. Gallaher,	Greensburg,	41 McCartney St.
Harry Scott Gay,	Shenandoah,	10 M.
Robert Wallace Givin,	Philadelphia,	19 McK.
Samuel Pellman Glover,	Hartleton,	24 McK.
Colbert Huntington Greer,	Painesville, Ohio,	66 North 3d St.
William Edward Hall,	Geneva, N. Y,	225 Cattell St.
Wallace Scott Harlan,	Coatesville,	322 New St.
Edward Samuel Herbert,	St. Clair,	6 McK.
Jacob Augustus Hiller,	Beech Pond,	36 S.
Edward Washington Hummel,	Harrisburg,	114 N. 3d St.
Valentine Hummel,	Harrisburg,	11 P.
Mark Loudon Hyndman,†	Mauch Chunk,	7 McK.
George Leonard Jolly,	Orangeville,	113 McCartney St.
Oliver Sabold Keely,	Roxboro,	14 McK.
Quincy E. Cookman Kendall,	Lenox, Mass.,	18 B.
Alexander Carson LaBarre,†	Slateford,	3 E.
Marcus Bachman Lambert,	Stouts,	526 Northampton St.
Walter Scott Lawall,	Easton,	115 N. 3d St.
Charles Henry Lerch,	Easton,	409 High St.
Charles Lose,	Montoursville,	48 S.
Charles Edwin Ludington,	Albany, N. Y.,	19 E.
Edward Dickinson McCulloch,	Peoria, Ill.,	341 Northampton St.
Samuel Johnson McCulloch,	Erwin Centre, N. Y.,	24 E.
Thomas Scott McKee,	Saltsburg,	51 S.
Alvan Markle,	Philadelphia,	7 P.

Henry Martin Marple,	Callao, Mo.,	19 N.
Henry D. Maxwell,	Easton,	143 Bushkill St.
Charles Stuart Melvin,	Oakland, Cal.,	24 E.
Nicholas Hunter Muhlenberg,†	Reading,	17 McK.
Frank Reber Musser,	Muncy,	63 North 3d St.
William Baxter Myers,	Bethlehem,	59 McK.
George Washington North,	Uhlersville,	———
John Wesley Nute,	Franklinville, N. J.,	41 McCartney St.
John Campbell Patton,	Indiana,	9 M.
Daniel Reed, Jr.,	Easton,	637 Walnut St.
Joseph Taft Rice,	Albany, N. Y.,	19 E.
James Wilson Roberts,	Harrisburg,	114 N. 3d St.
David Ogden Rogers,	Norristown,	8 P.
George Katzenbach Ronan,	Trenton, N. J.,	14 P.
John Nelson Root,	Lenox, Mass.,	18 B.
Thomas Jefferson Rupp,	Allentown,	46 S.
Henry Augustus Sage, Jr.,	Easton,	10 Lehn's Court.
George Flemming Sandt,	Easton,	463 Northampton St.
Louis Gustav Schultz,	Phillipsburg, N. J.,	Hudson St.
William Adam Seibert,	Easton,	526 Northampton St.
Orrin Serfass,	Easton,	453 Northampton St.
John Pfouts Stevens,	Jersey Shore,	2 E.
Charles Henry Swan,	Trenton, N. J.,	114 N. 3d St.
Charles Herbert Talmage,	St. Louis, Mo.,	41 McCartney St.
Gabriel David Thomas,	Altoona,	9 M.
Joseph Timmins,	Easton,	220 Northampton St.
Joseph Alexander Townsend,†	Bower Hill,	225 Cattell St.
Winthrop Fuller Victor,	Hohokus, N. J.,	41 McCartney St.
Francis Edward Walke,	Brooklyn, N. Y.,	225 Cattell St.
Robley Dunglison Walter,	Butztown,	5 Bank St.
Judson Perry Welsh,	Orangeville,	107 McCartney St.
Edward Ditman Wetmore,	Warren,	10 McK.
James Frank Wilson,	Washington, D. C.,	12 E.
William Henry Woodring,	Easton,	432 Northampton St.

FRESHMEN, - - - - - 80.

SUMMARY.

POST-GRADUATES,		5
UNDERGRADUATES,	Seniors,	46
	Juniors,	58
	Sophomores,	83
	Freshmen,	80
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REPRESENTATION.

Pennsylvania,	186	Massachusetts,	2
New Jersey,	26	Indiana,	1
New York,	14	Kentucky,	1
Ohio,	11	Louisiana,	1
Delaware,	8	North Carolina,	1
Maryland,	4	Rhode Island,	1
District of Columbia,	4	West Virginia,	1
Illinois,	3	Wisconsin,	1
Missouri,	3	Utah Territory,	1
California,	2	Japan,	1
			272

ABBREVIATIONS.

B.—Blair Hall.
McK.—McKeen Hall.
S.—South College.
E.—East Hall.
N.—Newkirk Hall.
†—Special Course.
M.—Martien Hall.
P.—Powell Hall.

COURSES OF STUDY.

CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

In 1871 Mr. PARDEE made another donation of $200,000, for the erection of a building designed for the use of the Scientific Department.

In 1872 this donation was increased to $250,000, and on the 21st of October, 1873, the building, with its scientific equipment, was formally handed over to the Trustees.

It consists of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height. The entire length of front, in a straight line, is two hundred and fifty-six feet. The material is the Trenton brown stone, with trimmings of light Ohio sand stone. It is heated throughout by steam and lighted by gas. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied and liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition

to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College now includes,

I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have, therefore, taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other modern Classics, which has been for some years in use in the College, gives, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin. Latin, however, may be taken in this course if the student elect.

II. TECHNICAL COURSES.

Still further demands have been made on this Institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the

country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL.—This course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals and other public works; Chemical works and Pneumatic works; the design and construction of Bridges; the trigonometrical and topographical survey of States, Counties, etc., the Survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING, ENGINEERING AND METALLURGY.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY.—This course includes text book study, lectures, and laboratory practice, every facility for which is found in the Laboratories of PARDEE HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufactories, or to explore and develop the mineral resources of our own and other countries.

POST GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874. Further information may be obtained by addressing the Dean of the Law Department, Hon. WILLIAM S KIRKPATRICK.

ADMISSION.

CLASSICAL COURSE.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, to quadratics; Plane Geometry, two books; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the Æneïd); Cicero, seven orations; Harkness's Latin Prose Composition (Part I.); Xenophon's Anabasis, four books; three Gospels in the Greek Testament, or three books of Homer—Odyssey preferred; Arnold's Greek Prose Composition (20 §§—or equivalent in Jones's); or other authors fully equivalent in quantity to the above.

GENERAL SCIENTIFIC COURSE.—Candidates for admission to the Freshman Class for the Scientific Course are examined in Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible. Those who elect the study of Latin are examined in the Latin required for admission to the Classical Course.

TECHNICAL COURSES.—1. *Engineering, Civil, Topographical and Mechanical.*
2. *Mining Engineering and Metallurgy.*
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Modern Geography, Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

SPECIAL STUDIES.—Applicants for instruction in a special study are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTIONS, see page 27.

TESTIMONIALS.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

MATRICULATION.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Livy.
Memorabilia.
Algebra, Loomis's, (continued.)
Latin Prose Composition.
Greek Prose Composition.
Lectures on Health.
Classical Geography.
English Composition.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Horace.
Herodotus.
Geometry, Loomis's, (continued.)
English Composition.
Latin Prose Composition.
Greek Antiquities.
Biblical Geography.
Old Testament in English.

THIRD TERM.

Horace.
Athenagoras.
Algebra, (completed.)
Solid Geometry.
Roman Antiquities.
English Composition.
Greek Prose Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Cicero, De Oratore.
Homer, Iliad.
Study of Words, Trench.
Mensuration, Loomis's.
Trigonometry, Plane and Spherical.
Greek Testament—Acts.

SECOND TERM.

Latin Hymns.
Homer, Iliad.
Conic Sections, Coffin's.
Rhetoric.
Archæology of Greek Literature and Art.
Greek Testament—Acts.

THIRD TERM.

Plato.
French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Archæology of Roman Literature and Art.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Cicero, Tusculan Disputations.
Demosthenes, De Corona.
Thucydides or Justin Martyr. } Elective.
Theoretical Mechanics. }
German.
Greek History.
Descriptive Mechanics.
Greek Testament—Romans.

SECOND TERM.

Tacitus.
Physics, (begun.)
English, Milton.
Anglo-Saxon, March's Grammar and Reader.
Fowler's English Language.
Constitution of the United States.
Political Philosophy.
Greek Testament—Romans.

THIRD TERM.

Greek Tragedies.
Physics, (completed.)
English, Shakespeare.
Anglo-Saxon, (continued.)
Fowler's English Language.
Chemistry, with Laboratory Practice.
Greek Testament—Romans.

Throughout the Year.—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoology.
Anatomy and Physiology.
Juvenal and Persius. } Elective.
Lactantius. }
Rhetoric. Logic.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology. Mineralogy.
English Literature.
Blackstone.
Chemistry.
Astronomy, (completed.) } Elective.
Greek. French or German.
Hebrew, Green's Grammar.
Evidences of Christianity.

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective.
Philosophy of Mathematics. }
Comparative Philology.
Geology, (completed.)
Architecture.
Blackstone.
Chemistry.
Greek. French or German. } Elective.
Hebrew, Chrestomathy.
History.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, Loomis's, (continued.)
Elements of Industrial Drawing.
English, March's Method.
English Composition.
French or Latin.
Chemistry.
Lectures on Health.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Geometry, Loomis's, (continued.)
Drawing, Plane Problems.
English Composition.
Modern Languages or Latin.
Chemistry, with Laboratory Practice.
Biblical Geography.
New Testament in English.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Elementary Projections.
Modern Languages or Latin.
Analytical Chemistry.
Mineralogy.
English Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations and written Translations into English from French and German, or Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration, Loomis's.
Elementary Projections.
Modern Languages or Latin.
Study of Words, Trench.
English, Bunyan.
Analytical Chemistry, (optional.)
Acts of the Apostles.

SECOND TERM.

Conic Sections, Coffin's.
Topographical Drawing, (optional.)
Botany. Zoology.
Modern Languages or Latin.
Rhetoric.
English, Spenser.
Analytical Chemistry, (optional.)
Acts of the Apostles.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying, Loomis's.
Botany. Zoology.
English, Chaucer.
Analytical Chemistry, (optional.)
Acts of the Apostles.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French or Latin.
English, Bacon. } Elective.
Chemistry. }

Zoology.
Botany.
New Testament Epistles.

SECOND TERM.

Physics, (begun.)
German or Latin.
English, Milton.
Anglo-Saxon, March's Grammar and Reader.

Fowler's English Language.
Constitution of the United States.
Political Philosophy.
New Testament Epistles.

THIRD TERM.

Physics, (completed.)
English, Shakespeare.
Anglo-Saxon, (continued.)

Fowler's English Language.
French or German.
New Testament Epistles.

Throughout the Year.—Declamations, Themes, and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Rhetoric. Logic.
German or Latin.

Modern Literature.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology.
Mineralogy.

Modern Languages.
Astronomy, (completed.) } Elective.
Chemistry. }
Blackstone. }
English Literature.
Evidences of Christianity.

THIRD TERM.

Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Comparative Philology.
History.
Architecture.

Chemistry.
Blackstone. } Elective.
Modern Languages. }
Geology.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (completed.)
Elements of Industrial Drawing.
English.
French.
Lectures on Health.
Chemistry.

SECOND TERM.

Geometry, (completed.)
Surveying.
Problems in Division of Land.
Drawing, Plane Problems.
French.
German.
Chemistry, with Laboratory Practice.

THIRD TERM.

Trigonometry and Mensuration.
Surveying, Field Work.
Elementary Projections.
French.
German.
Analytical Chemistry.

Throughout the Year.—Declamations, Themes, and the Bible.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Geometry, (begun.)
Surveying, Field Work.
Elementary Projections.
Mineralogy.
French.
German.
English—Trench on Words.

SECOND TERM.

Analytical Geometry, (completed.)
Topographical Drawing.
Chemistry, (optional.)
Botany. Zoology.
French.
German.
Mineralogy.

THIRD TERM.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoology.
French.
German.
Determinative Mineralogy.

Throughout the Year.—Declamations, Themes, and the Bible.

JUNIOR YEAR.

FIRST TERM.

Descriptive Geometry, (General Orthographic Projections.)
Triangular Surveying; Field Work, Adjustment of Instruments.
French.
Mechanics.
Lithology.
Practice with the Blowpipe.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Road Engineering—Theory, (begun.)
Colored Topography.
Hydrographical Surveying.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Road Engineering—Theory, (completed.)

Throughout the Year.—Declamations, Themes, written Debates, and the Bible.

SENIOR YEAR.

FIRST TERM.

Water Supply.
Road Engineering—Practice.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Strength of Materials.
Stability of Structures.
Supply and Distribution of Water.
Astronomy.
Political Economy.
Geology.
Mineralogy.

THIRD TERM.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
Graphical Statics.
History.
Geology.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING COURSE.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Mine Surveying. Adjustment of Instruments.
Analytical Chemistry.
French.
Lithology.
Practice with the Blow-pipe.

SECOND TERM.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
German.
Assaying.
Maps of Surveys.

THIRD TERM.

Topographical Surveying.
Map of Topographical Survey.
Analytical Chemistry.
French or German.
Analytical and Applied Mechanics.

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

FIRST TERM.

Mining.
Metallurgy.
Ore Deposits.
Analytical Chemistry.
Machine Drawing.
General Theory of Machines.

SECOND TERM.

Mining. Metallurgy.
Analytical Chemistry.
Machinery and Motors.
Geology. Mineralogy.
Political Economy.
Supply and Distribution of Water.

THIRD TERM.

Mining.
Metallurgy.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
History.
Geology.
Analytical Chemistry.
Graduation Theses.

Throughout the Year.—Themes, Speaking, and Biblical Studies.

CHEMICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Chemistry.
Elements of Industrial Drawing.
English. French.
Algebra, (completed.)

SECOND TERM.

Chemistry, with Laboratory Practice.
Drawing, Plane Problems.
German and French.
Geometry, (completed.)

THIRD TERM.

Analytical Chemistry.
Elementary Projections.
German and French.
Trigonometry and Mensuration.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Chemistry.
Elementary Projections.
Mineralogy.
German and French.
English—Trench on Words.

SECOND TERM.

Analytical Chemistry.
Botany and Zoology.
Mineralogy.
German and French.

THIRD TERM.

Analytical Chemistry.
Botany and Zoology.
French and German.
Determinative Mineralogy.

JUNIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Practice with the Blowpipe.
French.
Lithology.

SECOND TERM.

Analytical Chemistry.
Assaying. Physics.
German.
Practice in Lithology.

THIRD TERM.

Analytical Chemistry.
Physics.
French or German.

SENIOR YEAR.

FIRST TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy.
Toxicology.
Physiological Chemistry.

SECOND TERM.

Analytical Chemistry.
Chemical Technology.
Metallurgy. Geology.
Mineralogy.
Political Economy.
Agricultural Chemistry.

THIRD TERM.

Analytical Chemistry.
Metallurgy.
Gas Analysis.
Geology.
History.
Graduation Theses.

Throughout the Year.—Themes, Speaking, written Debates, and Biblical Studies. Text books in Chemistry in the German language are used during the Junior and Senior years.

WORKING SECTIONS.—Graduates of Schools of Science and Practical Engineers wishing to devote all their time to thorough preparation for professional employment in Engineering, Mining or Chemistry, may enter a Working Section without examination. Others wishing to enter a Section must pass an examination on the studies leading to the work of the Section. Those completing the work of either section may obtain from the Faculty a certificate to that effect.

Further information may be had by addressing the Dean of the Pardee Scientific Department.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year, a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Alexander's Moral Science are used as text books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	*First Term.*	History of Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the history of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text books, weekly written essays are required, and declamations in class or before the College. Extemporaneous Speaking is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

A comprehensive course of lectures on Elocution, given to the Freshman Class, is followed by systematic instruction and training extending through the whole College course. The students of all the

classes are carefully prepared by private rehearsals for their weekly speaking.

In addition to the regular class speaking of each week, there is held, on the first Wednesday of each month, an exercise at which three speakers from each of the three upper classes appear before an audience consisting of the entire body of students and faculty and invited guests.

In making the appointments, which are purely honorary, for this exercise, regard is had both to natural ability and to faithful work in the regular class speaking.

The Seniors speak original, and the Juniors and Sophomores selected pieces, in the preparation of which extra work is done.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.) Prosody, (Greek.)
	Second Term.	Historical Etymology.
	Third Term.	Syntax, (modes and tenses.)

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at the time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Cicero, and Plato, in these relations.

The text-books of the Douglass series of Christian Greek and Latin writers are used in a part of the course, as follows: Freshman year,

third term, Athenagoras; Sophomore year, second term, Latin Hymns; Junior year, first term, Justin Martyr, (elective;) Senior year, first term, Lactantius, (elective.)

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek, Goodwin's Grammar for drill, Crosby's Grammar and Hadley's Grammar for reference, Goodwin's Greek Moods and Tenses, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

English, French, German, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed: the mythology, biography, history, metaphysics, theology, geography are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is pursued in the Classical Course.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL. D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English Classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1878 were examined on Scott. The prize was awarded to C. P. G. Scott. The Class of 1879 will be examined on Wordsworth.

THE HARVEY PRIZE.—An English Prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A. M., of the Class of 1871.

In the Class of 1879 it was awarded to W. I. Steans.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1878, offered by the London Society of that name, for the best examination in English before Chaucer, was won by L. B. Eyster of 1879, for the best examination in Beowolf.

THE NEW SHAKESPEARE SOCIETY'S PRIZE for 1878, offered by the London Society of that name, for the best examination in Shakespeare, was won by E. S. Boyer of 1879.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun.)
	Third Term.	Physics, (completed.)
SENIOR YEAR.	*First Term.*	Astronomy, (begun.)
	Second Term.	Astronomy, (completed.)

See Physics, p. 33.

Students in the Technical Courses study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Scientific Course see pages 22 and 23.

Text books are used as mentioned on pages 20 and 21, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded to the Student in the Senior Class who has made the highest attainment in Astronomical Science. In 1877 it was awarded to W. B. Riegner.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical or Scientific, and Technical, to a member of the Junior Class. In 1878 these prizes were awarded as follows: in the Scientific department to W. C. Parsons, and in the Technical department to H. T. Yegawa.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with ilustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 24–27.

In Physics, as well as in Astronomy, Chemistry, Engineering and Natural History, the studies are illustrated by thirteen hundred wall-charts, many of which give illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to perform for himself a course of illustrative experiments in the Laboratory, under the direction of the Professor; and they are invited to pursue Analytical Chemistry through the rest of the course. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. One whole story of Pardee Hall is devoted to Chemical Laboratories and Lecture-rooms, and every aid known to modern educators is there offered to each student in prosecuting his studies.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoology.
JUNIOR YEAR.	*First and Second Terms.*	Zoology. Geology.
SENIOR YEAR.	*First Term.*	Botany. Zoology.
	Second Term.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years' labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures on the connections between Natural Science and Revealed Religion.

In MINERALOGY the classes have the advantage of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 25–26.

HUMAN PHYSIOLOGY, PHYSICAL CULTURE.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The lectures in this department are thorough and practical, illustrated by a manikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. It is intended that physical training, under the immediate supervision of the Professor of Physical Culture, shall be a part of the regular College Course, as soon as funds may be secured for a Gymnasium.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel daily, and preaching on the Sabbath. A daily social prayer meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department; the degree of BACHELOR OF SCIENCE on graduates of the General Scientific Course, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of ANALYTICAL CHEMIST.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two

years the Post Graduate Course of the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character. Those desiring the MASTER'S degree should make written application to the Clerk of the Faculty at least two weeks before Commencement.

Doctor's Degree.—Graduates of the College of three years' standing, and resident students of post graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

LIBRARIES AND READING ROOM.

The College Library is open Thursday, Friday, and Saturday at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at their regular meetings.

The EASTONIAN HALL is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett of Baltimore. There is also a full length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans of Paris.

TERMS AND VACATIONS.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

SOCIETIES.

There are two literary societies in the College, the WASHINGTON and the FRANKLIN, which have well-furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY, as a Society of Inquiry, meets on the first Wednesday of each month, in the interest of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The NATURAL HISTORY SOCIETY, Professor PORTER, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The CHEMICAL SOCIETY, Professor DROWN, President, meets in Pardee Hall. Papers on Chemical or allied subjects are presented and discussed by the members. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of PHYSICS AND ENGINEERING, Professor MOORE, President, has for its object the investigation and discussion of subjects connected with these departments.

The ALUMNI ASSOCIATION is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday preceding Commencement-day.

EXPENSES.

Tuition (to those not on scholarships) in the Classical or General Scientific Course,	$15 00	a term.
Tuition in the Technical Courses, or Working Sections,	25 00	"
General Expenses,	8 00	"
Library and Reading Room,	2 00	"

The annual College charges are therefore, for those who pay tuition in full, $75.00 for the Classical or General Scientific Course; and $105.00 for the Technical Courses. Each student pays $5.00 when he is registered on entering college, and $10.00 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus. No fees are charged for diplomas.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories. Members of the Classical Department are admitted to all the privileges of Pardee Hall while studying General Chemistry, and, for the present, without charge for the aid of the Professor in attendance; each student will, however, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the Classical Course will hold good for the Pardee Scientific Department, unless the student shall select one of the Technical Courses, in which case he must pay each term one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs managed by the students is from $1.75 to $3.00 per week.* Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College buildings may be had at a cost of from five to fourteen dol-

*There are at the present time seven of these Clubs. The price of board per week in each is as follows:—(1) and (2) $1.75; (3) $2.00; (4) $2.50; (5), (6) and (7) $3.00. More than fifty of the students board in the Clubs (1), (2) and (3) in which the price of board per week is two dollars or less.

lars a term (average $8.) Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance, also the room rent, when the student occupies a room in the College buildings. The Treasurer also, on behalf of the Committee of Students, collects with the College bills at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.08. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and traveling expenses—need not exceed $250, as will be seen from the following summary:

COLLEGE CHARGES.

General Expense,	$24 00	
Library and Reading Room,	6 00	$30 00

INCIDENTAL EXPENSES.

Fees and dues, Literary and Scientific Societies, (estimated)	$ 8 00	
Text-books and Stationery, (estimated)	20 00	$28 00

PERSONAL EXPENSES.

Board for 39 weeks, (at lowest club rates, see note, p. 38)	$68 25	
Room Rent, (average as above)	24 00	
Fuel, (average as above)	6 75	
Light and Washing, (estimated)	24 00	$123 00
		$181 00
Leaving a balance for contingencies,		69 00
Total as above,		$250 00

Board at the highest club rates, $3.00 per week, would add $48.75 to the above estimate, but would still bring the annual expenses within the two hundred and fifty dollars.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Recent Additions.

The Department of Civil Engineering has received during the past year, through W. S. Ayres, of '72, a complete set of sections of rolled beams, angle, channel and T irons from the N. J. Steel and Iron Company, Trenton, N. J.

The Library has received gifts from J. Boothby, Esq., London; James Young and R. Angus Smith, F. R. S.; Samuel Davenport, Australia; Gen. Wm. S. Stryker, N. J.; J. H. Martin, Atlanta; Hon. S. A. Bridges; The Second Geological Survey of Pennsylvania; The Smithsonian Institute; The U. S. Commissions and the Heads of Departments at Washington.

The Mineralogical Cabinet has received from Mr. F. D. Kinnear, of '79, specimens of mineral oils with products from refining.

Bequests and Devises.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, and witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, &c., to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college, according to the provisions of its charter.

DEGREES

CONFERRED AT THE

LAST ANNUAL COMMENCEMENT, JUNE 26, 1878.

A. B.

James Arnold Aiman,
John Davidson Dorris,
Joseph Edward Durham,
Alexander Elliott, Jr.,
Edward Fox,
Joel Scobey Gilfillan,
James Johnson Grant,
Charles Heebner,
Lewis Ahrens Hoffman,
James Renwick Hogg,
James D. Hunter,
Charles Collingwood Jennings,
Robert Stuart Johnston,
William Scott Kerr,
Edward Arthur McLaury,
James Cameron Mackenzie,
William Newton Mateer,
Joshua Lewis Miner,
George W. Phillips,
Charles Bement Riggs,
George Washington Sandt,
Horace Daniel Sassaman,
Charles Payson Gurley Scott,
Joshua Rogers Serfass,
John Franklin Sheppard,
Henry Snyder,
Alexander Ramsey Speel,
Russell Chidsey Stewart,
George Washington Stout, Jr.,
William Broadwell Sullivan,
William Philip Taylor,
William Garvin Trunkey,
Edwin Teel Walker,
Barge Christopher Weidman,
John Fremont Williamson,
George Franklin Pierce Young,
William John Alexander, '77,
Harry Vernon Rice, '77,
Nathan Grier Moore, '73,
Clayton Kerper Smith, '72.

PH. B.

William Gates Coffin,
Edward Everett Hoyt,
Harry Knecht,
George Bushar Markle, Jr.,
Charles Thomas Officer,
Howell Terry Pershing,
George Redsecker Ross,
James Harvey Scott,
William Lesley Sheafer,
Thomas Oscar Young,
James Lawson Patterson, '77.

B. S.

Horace Beemer Ayres,
John Charles Temple,

Joseph Brakely, '75.

C. E.

Charles Dinsmore Marvin,
Samuel Wilberforce Powel,

Charles Michler Ray.

M. E.

John Charles Churchill, Jr.,
John Maxwell Sherrerd,

Porter Wilson Shimer.

A. C.

Charles Forney,
Jacob Koch Griffith,

Henry Mahn McIntire, M. E., '77.

A. M.

R. H. Carothers, '75.
A. F. Derr, '75.
W. H. Harrison, '75.
W. S. Hetrick, '75.
D. W. Nevin, '75.
H. H. Pollock, '75.

A. J. Sullivan, '75.
J. W. Walk, M. D., '75.
L. B. Walker, '75.
Rev. J. S. Kelsey, '68.
C. E. Lee, M. D., '63.

M. S.

R. A. Roberts, '75.

PH. D.

Professor S. G. Barnes, '73.

A. M., HONORARY.

Horatio C. Wood, M. D., Professor of Materia Medica and Therapeutics, University of Pennsylvania.

J. A. Thacker, M. D., Professor of Principles and Practice of Medicine, Cincinnati College of Medicine and Surgery.

A. K. Minnick, M. D., Lecturer in the Auxiliary Faculty of Jefferson Medical College.

Elisha Harris, President of American Health Association.

Henry E. Shepherd, Superintendent of City Schools, Baltimore.

PH. D., HONORARY.

W. D. Mackey, Professor of Ancient Languages, Delaware College.

Professor S. D. Hillman, Pennsylvania State Normal School, Shippensburg.

Professor F. W. Hastings, Philadelphia.

APPOINTMENTS FOR COMMENCEMENT DAY.

HONORARY ORATIONS EQUAL IN RANK.

Charles Heebner, - - - - - *The Latin Salutatory.*
J. C. Mackenzie, - - - - - *The Valedictory.*
H. T. Pershing, - - - - - *The Philosophical Oration.*
G. W. Sandt, - - - - - *The Mathematical Oration.*
C. P. G. Scott, - - - - - *The Philological Oration.*
J. M. Sherrerd, - - - - - *The Scientific Oration.*
H. Snyder, - - - - - - *The Classical Oration.*

ORATIONS.

G. W. Phillips, *Historical.*
J. D. Dorris,
J. E. Durham,
E. Fox,
C. D. Marvin,
J. L. Miner,
C. T. Officer,
C. B. Riggs,
H. D. Sassaman,
J. F. Sheppard,
P. W. Shimer,
A. R. Speel,
R. C. Stewart.

APPOINTMENTS FOR JUNIOR ORATOR CONTEST.

FRANKLIN HALL.

E. C. Armstrong,
R. Caughey,
H. S. Cavanaugh,
W. I. Steans.

WASHINGTON HALL.

W. J. Jones,
G. W. Plack,
N. L. Seguin,
H. T. Yegawa.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE

FOR THE

YEAR 1879–1880,

WITH THE COURSES OF STUDY.

EASTON, PA.:
FREE PRESS STEAM BOOK AND JOB PRINT.
1880.

COLLEGE CALENDAR.

1879.

September 4, Thursday.—First term began.
December 24, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1880.

January 8, Thursday.—Second term begins.
January 29, Thursday.—Day of Prayer for Colleges.
February 23, Monday.—Anniversary of the Washington Literary Society.
March 16, Tuesday.—Junior Orator Contest.
March 24, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 8, Thursday.—Third term begins.
June 14–16.—Final examination of the Senior Class.
June 24–28.—Examination of the lower classes.
June 27, Sunday.—Baccalaureate Sermon.
June 27, Sunday.—Anniversary of the Brainerd Missionary Society.
June 27, Sunday.—Sermon before the Christian Brotherhood.
June 28, Monday.—Senior Class Day and Concert.
June 29, Tuesday.—Reunion Meetings of the Literary Societies.
June 29, Tuesday.—Technical Theses read and defended.
June 29, Tuesday.—Alumni Oration and Social Reunion.
June 29, Tuesday.—Oration before the Literary Societies.
June 30, Wednesday.—Commencement Exercises.
July 1, Thursday.—Examinations for admission.

VACATION OF NINE WEEKS.

August 31–Sept. 1, Tuesday and Wednesday.—Examinations for admission.
September 2, Thursday.—First term begins.
October 20, Wednesday.—Founder's Day.
November 25, Thursday.—Thanksgiving Day.
November 26, Friday.—Anniversary of the Franklin Literary Society.
December 22, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1881.

January 6, Thursday.—Second term begins.
March 23, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

TRUSTEES.

MAJOR-GENERAL ROBERT PATTERSON, *President*,	PHILADELPHIA.
REV. S. M. ANDREWS, D. D.,	DOYLESTOWN.
WILLIAM C. LAWSON,	MILTON.
REV. SAMUEL F. COLT,	LAPORTE.
REV. AARON H. HAND, D. D.,	EASTON.
REV. WILLIAM C. CATTELL, D. D.,	EASTON.
A. PARDEE,	HAZLETON.
REV. J. H. MASON KNOX, D. D.,	BRISTOL.
JOHN WELLES HOLLENBACK,	WILKES-BARRE.
WILLIAM DORRIS,	HUNTINGDON.
JOHN CURWEN, M. D.,	HARRISBURG.
WILLIAM ADAMSON,*	PHILADELPHIA.
THOMAS DICKSON,	SCRANTON.
THOMAS L. MCKEEN,	EASTON.
BENJAMIN G. CLARKE.	NEW YORK CITY.
C. DELANO WOOD,	BROOKLYN, N. Y.
HON. A. G. RICHEY,	TRENTON, N. J.
HON. ALFRED HAND,	SCRANTON.
JAMES S. MCKNIGHT,	CHAMBERSBURG.
JAMES W. LONG,	EASTON.
REV. SAMUEL T. LOWRIE, D. D.,	GREENSBURG, N. J.
A. S. PATTERSON,	HARRISBURG.
REV. N. S. MCFETRIDGE,	PHILADELPHIA.

SAMUEL L. FISLER, *Secretary and Treasurer*, EASTON.

MEETINGS OF THE TRUSTEES.

Wednesday, October 22, 1879, FOUNDER'S DAY.
Wednesday, January 28, 1880, ANNUAL BUSINESS MEETING.
Tuesday, June 29, 1880, COMMENCEMENT WEEK.

*Died June 16, 1879.

FACULTY.

REV. WILLIAM C. CATTELL, D. D., LL. D., PRESIDENT,
And Professor of Mental and Moral Philosophy.

TRAILL GREEN, M. D., LL. D.,
Professor of General Chemistry.

FRANCIS ANDREW MARCH, LL. D.,
Professor of the English Language and Comparative Philology.

REV. JOHN LEAMAN, A. M., M. D.,
Professor (Emeritus) of Human Physiology and Anatomy.

REV. LYMAN COLEMAN, D. D.,
Professor of Latin and of Biblical and Physical Geography.

REV. THOMAS C. PORTER, D. D.,
Professor of Botany and Zoology.
(Jessie Chamberlain Professorship of Botany.)

REV. AUGUSTUS A. BLOOMBERGH, PH. D.,
Professor of Modern Languages.

REV. ROBERT BARBER YOUNGMAN, A. M.,
Professor of Greek Language and Literature.

FREDERICK PRIME, JR., A. M.,
Lecturer on Metallurgy and Mineralogy.

ROSSITER W. RAYMOND, PH. D.,
Lecturer on Mining Geology.

REV. SELDEN JENNINGS COFFIN, PH. D.,
Professor of Mathematics and Astronomy.
(George Hollenback Professorship of Mathematics.)

JAMES W. MOORE, A. M., M. D.,
Professor of Mechanics and Experimental Philosophy.

JUSTUS MITCHELL SILLIMAN, M. E.,
George B. Markle Professor of Mining Engineering and Graphics.

JOSEPH G. FOX, C. E.,
Professor of Civil and Topographical Engineering.

THOMAS M. DROWN, M. D.,
William Adamson Professor of Analytical Chemistry.

REV. ADDISON BALLARD, D. D.,
Professor of Moral Philosophy and Rhetoric.

ARTHUR LATHAM BAKER, C. E.,
Adjunct Professor of Civil Engineering.

JOSEPH JOHNSTON HARDY, A. M.,
Adjunct Professor of Mathematics.

DAVID BENNETT KING, A. M.,
Adjunct Professor of Latin.

WM. BAXTER OWEN, A. M.,
Adjunct Professor of Greek.

JOHN G. DIEFENDERFER, A. M.,
Adjunct Professor of Modern Languages.

EDWARD HART, PH. D.,
Adjunct Professor of General Chemistry.

W. F. WORTHINGTON, ASSISTANT ENGINEER, U. S. N.,
Assistant Professor of Applied Mechanics and Instructor in Steam Engineering.

FRANCIS ANDREW MARCH, LL. D.,
Librarian.

REV. R. B. YOUNGMAN, A. M.,
Clerk of the Faculty.

WM. H. WEAVER, *Janitor.*

BOARD OF EXAMINERS,
PARDEE SCIENTIFIC DEPARTMENT.

For the year 1879–80.

DAVID THOMAS,
JOHN W. GARRETT,
P. W. SHEAFER,
SELDEN T. SCRANTON,
ALEXANDER L. HOLLEY,
CHARLES B. DUDLEY,
H. C. FAHNESTOCK,
JOHN LIESENRING,
HENRY MCCORMICK,
HENRY K. SMITH,
JOHN WANAMAKER,
WALLACE S. AYRES,
CHARLES O. BAIRD,
HORACE BROCK.

COMMITTEE OF THE ALUMNI.

For the year 1879–80.

REV. DAVID K. FREEMAN,	SCRANTON.
HON. ROBERT SNODGRASS,	HARRISBURG.
CHARLES S. MCCORMICK, ESQ.,	LOCK HAVEN.
JAMES P. BOYD, ESQ ,	PHILADELPHIA.
AUGUSTUS RAYMOND, A. M.,	NEW YORK CITY.
HON. THOMAS MCCAMANT,	HARRISBURG.
FREDERICK CORSS, M. D.,	KINGSTON.
REV. FRANCIS M. TODD,	MANASSAS, VA.
CHARLES F. CHIDSEY, A. M.,	EASTON.
REV. JAMES ROBERTS,	COATESVILLE,
GEORGE R. KAERCHER, ESQ.,	POTTSVILLE.
JOHN M. PFOUTS, A. M.,	MOUNT HOLLY, N. J.
ABRAHAM A. SMITH, M. D.,	NEW YORK CITY.
FRANK W. STEWART, A. M.,	EASTON.
PROF. TERENCE JACOBSON,	BROOKLYN, N. Y.
JOHN MEIGS, PH. D.,	POTTSTOWN.
REV. JOHN FOX,	WOODBERRY, MD.
REV. CHARLES E. BURNS,	MANAYUNK.
I. P. PARDEE, M. E.,	SECAUCUS, N. J.
NICHOLAS H. LARZELERE, ESQ.,	NORRISTOWN.
HARRY EMMONS, ESQ.,	WILMINGTON, DEL.

STUDENTS.

POST-GRADUATES

NAMES.	COLLEGE.	SPECIAL STUDY.
Wm. Lesley Sheafer, Ph. B.,	Lafayette, 1878,	Chemistry.
Langdon L. Ward, A. B.,	Amherst, 1879,	Philology.

UNDERGRADUATES.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Frank Eshleman Bachman,	Strasburg,	12 P.
Morton Shelly Bailey,	Wellsboro,	27 McK.
James Woodbridge Barnes,	Perth Amboy, N. J.,	31 S.
Robert Welsted Beers,	Easton,	417 Pine St.
William Findlay Brown,	Dover, Del.,	———
William Samuel Cason,	Robinson Station, Ky.,	16 B.
James McKeen Cattell,	Easton,	President Cattell's.
John H. Cooper,	Brockwayville,	37 S.
Archibald Alexander Dewing,	Cold Spring, N. J.,	———
Hervey Simpson Dickey,	Steeleville,	30 S.
Thos. Frederick Diefenderfer,	Allentown,	———
Herbert Allison Doud,	Scranton,	9 P.
Clarence Lincoln Drake,	Easton,	344 Lehigh St.
Henry Hill Eldridge,	Shiloh, N. J.,	27 S.
Elmer Clay Fahrney,	Hagerstown, Md.,	19 McK.

John Wilson Farquhar,	Easton,	6 P.
Austin Farrell,	Pleasant Mills, N. J.,	1 P.
Levi James Fick,	Liberty,	27 S.
John Potts Fillebrown,	Washington, D. C.,	20 McK.
Lewis Wesley Flinn,	Newport, Del,	14 B.
Harry Rogers Forbes,	Buffalo, N. Y,	51 S.
Muscoe Minor Gibson,	Norristown,	11 McK.
Aaron Goldsmith,	Easton,	135 Northampton St.
George Blackburn Goodhart,	Reading,	2 E.
Frederick Green,	Easton,	644 Ferry St.
Herbert Miller Hagerman,	Mount Bethel,	27 McK.
John Smith Hart,	Pennington, N. J.,	202 Northampt'n St.
Andrew Thomas Hays,	Emmittsburg, Md.,	22 S.
Joseph Patrick Henry,	Mansfield, Ohio,	10 N.
Frank Wallace Hohl,	Easton,	32 N. 3d St.
Edwin Kline,	Alexandria,	16 E.
Alexander McClure Lupfer,	Beavertown,	15 B.
Irwin Pounds McCurdy,	Indiana,	216 McCartney St.
John Markle,	Philadelphia,	7 P.
Norton John Martin,	Allentown,	8 P.
Otho Nesbitt Miller,	Williamsport,	17 N.
John Trowbridge Morrison,	Nyack, N. Y.,	11 M.
William Vernon Olyphant,	Newport, R. I.,	11 M.
John Grandin Reading,	Frenchtown, N. J.,	9 McK.
Ambrose Davies Reese,	Parsons,	9 N.
Samuel Stewart Reid,	Parkesburg,	32 S.
Robert Walter Sharp,	Brooklyn, N. Y.,	200 Northampton St.
Robert Green Smith,	Hayesville,	13 B.
William Wilberforce Smith,	LaCrosse, Wis.,	12 M.
Joseph Fetherman Stier,	Johnsonville,	109 S. 3d St.
Montrose Graham Tull,	Philadelphia,	19 McK.
David Douglass Wagener,	Easton,	34 S. 4th St.
William Guy Wells,	Pottsville,	7 B.
William Ivins Whilldin,	Philadelphia,	6 M.
William Nelson Wilbur,	Camden, N. J.,	9 McK.
Mathew Cooper Woods,	Boalsburg,	20 B.
George Lawrence Xander,	Easton,	733 Ferry St.
William Stewart Young,	Parkesburg,	30 S.

SENIORS, - - - - 53.

JUNIOR CLASS.

Absalom Peter Bachman,	Easton,	1152 Northampton St.
William Smith Barnes,	Waynesboro,	33 S.
Charles Milford Bergstresser,	Berrysburg,	23 N.
John Franklin Biggs,	Summit Bridge, Del.,	14 M.
Henry Gough Birchby,	Philadelphia,	14 S.
Thomas Blatchford Boughton,	Troy, N. Y.,	Professor Silliman's.
Robert Patterson Boyd,	Chestnut Level,	43 S.
James Campbell,	Manalapan, N. J.,	38 S.
Frank Herring Chalfant,	Martin's Ferry, O.,	200 McCartney St.
William Parker Chalfant,	Martin's Ferry, O.,	200 McCartney St.
Thomas Culbertson Clark,	Martin's Ferry, O.,	200 McCartney St.
Robert Merritt Collins,	St. Clairsville, Ohio,	18 McK.
Julius Tozer Corbin,	Athens,	22 S.
William Dickey Crosby,	Oxford,	215 Reeder St.
Charles William Davenport,	Erie,	11 P.
John Rumsey Davies,	Scranton,	38 S.
Lester Coolidge Dickinson,	Warrensburg, N. Y.,	16 McK.
William Herbert Emanuel,	Catasauqua,	15 McK.
Charles Conner Evans,	Berwick,	13 McK.
Joseph Horn Evans,	Easton,	432 Ferry St.
Harry Crawford Frankenfield,	Easton,	1042 Lehigh St.
Clarence Elmer Griffin,	Easton,	819 Spruce St.
John Henry Grossmann,	Salem, N. J.,	15 E.
Andrew Neely Hagerty,	West Alexander,	47 McCartney St.
James Harvey Harrison,†	Pittsburgh,	2 McK.
Edward McElwain Haymaker,	Philadelphia,	57 S.
James Breading Hogg,	Connellsville,	5 McK.
Robert Henry Hoover,	Waynesboro,	35 S.
Samuel Gulick Hutchison,	Bangor,	50 S.
George Massey Jones,	Dover, Del ,	34 S.
Asa Sharpe Keeler,	Keelersburg,	60 S.
Edwin Luther Kenney,	Griggsville, Ill.,	200 Northampton St.
Pearce Kintzing,	Lock Haven,	3 McK.
William Koch,	Phillipsburg, N. J.,	359 Lewis St.
Levi Finley Laverty,	Finleyville,	13 E.
Robert Benjamin Lehman,†	Newberne, N. C.,	22 E.

William J. C. Loos,	Bethlehem,	5 E.
Albert Clark McCauley,	Altoona,	13 McK.
David McClure, Jr.,	Oakland, Cal.,	
George King McCormick,	Shippensburg,	10 S.
Francis Andrew March, Jr.,	Easton,	Professor March's.
Cuvier Robb Marshall,	Parkesburg,	1 E.
James Henry Maxwell,	Pottstown,	13 M.
John Stone Morrison,	Philadelphia,	13 M.
John Adams Muir,	Stewartstown,	43 S.
George Everett Osterhout,	Tunkhannock,	60 S.
Frank Edwin Pellet,	Papakating, N. J.,	47 S.
Francis Henry Register,	Lewes, Del.,	16 McK.
Nathan Grube Reiff,	Pottstown,	21 E.
Robert Reading Remington,†	Williamsport,	14 P.
Elijah John Richards,	Easton,	23 S.
William N. Ruby,	Perrysville, Ohio,	56 S.
Andrew Eliason Sanborn,	Mt. Pleasant, Del.,	14 M.
Edwin Livingston Scott,	Washington, D. C.,	23 E.
William Oliver Semple,	Easton,	223 Northampton St.
Alfred Jones Shattuck,	Blossburg,	11 E.
Charles Bunstein Stover,	Easton,	217 Northampton St.
Charles Nichols Williams,†	Wellsboro,	23 S.
Charles Lissle Wilson,	Carthage, Mo.,	51 S.
James Wilson,	Greenville, Del,	7 M.
Philip Samuel Zieber,	Reading,	20 E.

JUNIORS, - - - - 61.

SOPHOMORE CLASS.

George Auchy,	Pottstown,	7 E.
John Townsend Baker,	Easton,	130 McCartney St.
Benjamin Stanley Banks,	Norristown,	21 N.
Nathan Wallace Beddall,	Port Carbon,	8 M.
Milton Jacob Bliem,	Slatington,	13 S.
Robert Henry Agnew Boyd,	Belvidere, N. J.,	26 McK.
Jacob Peter Breidinger,	Stockertown,	16 S.

John Wright Campbell,	Altoona,	7 P.
Percival Carskaddon,	Lock Haven,	20 S.
William Edward Coleman,	Schooley's Mountain, N. J.,	1 P.
Frank Philip Collier,	Stewartsville, N. J.,	6 M.
Harries Lothane Daddow,	St. Clair,	6 McK.
Lewis Redner Dalrymple,	Lock Haven,	3 McK.
Edward Davis,	Milton,	———
James Frear Day,	Tunkhannock,	11 N.
Francis Eugene Dow,	Hackettstown, N. J.,	13 S.
James Clifton Edgar,	New York City,	40 N. 3d St.
Frederick Vanduzor Frisbie,	Orwell,	13 S.
John M. Gallaher,	Greensburg,	41 McCartney St.
Harry Scott Gay,	Shenandoah,	10 M.
Robert Wallace Givin,	Philadelphia,	———
Samuel Pellman Glover,†	Hartleton,	24 McK.
Colbert Huntington Greer,	Painesville, Ohio,	114 North 3d St.
Wallace Scott Harlan,	Coatesville,	19 B.
Edward Samuel Herbert,	St. Clair,	6 McK.
Jacob Augustus Hiller,	Beach Pond,	———
Levi Huber,†	Willow Street,	———
Edward Washington Hummel,	Harrisburg,	114 N. 3d St.
Valentine Hummel,†	Harrisburg,	11 P.
Quincy E. Cookman Kendall,	Lenox, Mass.,	26 McK.
Alexander Carson LaBarre,	Slateford,	3 E.
Marcus Bachman Lambert,	Stouts,	16 S.
Walter Scott Lawall,	Easton,	115 N. 3d St.
Charles Henry Lerch,	Easton,	34 Cattell St.
Edward Lewers,	Easton,	341 Lehigh St.
Charles Lose,	Montoursville,	13 P.
Charles Edwin Ludington,	Albany, N. Y.,	23 McK.
Edward Dickinson McCulloch,	Peoria, Ill.,	344 Bushkill St.
Samuel Johnson McCulloch,	Erwin Centre, N. Y.,	19 E.
Orvis Dell McHenry,	Still Water,	24 McK.
Henry Martin Marple,	Callao, Mo ,	19 N.
Henry D. Maxwell,	Easton,	143 Bushkill St.
Charles Stuart Melvin,	Oakland, Cal.,	17 McK.
Richard McCarty Michler,	Toledo, Ohio,	12 B.
Nicholas Hunter Muhlenberg,†	Reading,	10 McK.
John Bruner Myers,	Lock Haven,	20 S.
William Baxter Myers,	Bethlehem,	5 McK.
George Washington North,	Uhlersville,	153 Union St.

John Wesley Nute,	Easton,	49 McCartney St.
John Campbell Patton,	Indiana,	9 M.
Daniel Reed, Jr.,	Easton,	637 Walnut St.
Joseph Taft Rice,	Albany, N. Y.,	23 McK.
James Wilson Roberts,	Harrisburg,	114 N. 3d St.
David Ogden Rogers,†	Norristown,	8 P.
George Katzenbach Ronan,	Trenton, N. J.,	14 P.
George Flemming Sandt,	Easton,	463 Northampton St.
Louis Gustav Schultz,	Phillipsburg, N. J.,	Hudson St.
William Adam Seibert,	Easton,	526 Northampton St.
Orrin Serfass,	Easton,	453 Northampton St.
George Quinton Sheppard,	Bridgeton, N. J ,	44 S.
Samuel Eakin Shull,	Martin's Creek,	14 E.
Orlo Skinner,	Fostoria, Ohio,	18 McK.
John Pfouts Stevens,	Jersey Shore,	12 E.
Charles Henry Swan,	Trenton, N. J.,	114 N. 3d St.
Charles Herbert Talmage,	St. Louis, Mo.,	49 McCartney St.
Gabriel David Thomas,	Altoona,	9 M.
Winthrop Fuller Victor,	Hohokus, N. J.,	6 McK.
Robley Dunglison Walter,	Butztown,	464 Northampton St.
Judson Perry Welsh,	Orangeville,	107 McCartney St.
Edward Ditmars Wetmore,	Warren,	10 McK.

SOPHOMORES, - - - - 71.

FRESHMAN CLASS.

Chester Eben Albright, Jr.,	Muncy,	58 S.
Harry Alexander Barrett,	Pittsburgh,	17 McK.
Carrol Phillips Bassett,	Newark, N. J.,	47 McCartney St.
William Cooper Bond,	Sugar Hill,	37 S.
George B. McClellan Bower,	Tamauqua,	28 S.
Frederick Brandenburg,	Pittston,	12 S.
Elmer Collins Brown,	Huntingdon,	22 N.
Harry Anderson Brown,	Huntingdon,	24 N.
VanRensselaer Brown,	Sherrard, W. Va.,	48 S.

William Richard Campbell,	Orangeville,	231 Cattell St.
Daniel Avery Capwell,	Factoryville,	12 N.
Harry Ware Cattell,	Easton,	President Cattell's.
George Finch Chamberlin,	Croton Falls, N. Y.,	47 McCartney St.
Paul Powless Clarke,	Danville, N. J.,	———
Brentano Clemens,	Easton,	435 Northampton St.
Harry Edmund Colvin,	Schellsburg,	10 P.
Clarence Henry Copp,	Easton,	———
George Good Elvan Datesman,	Mahanoy City,	58 S.
Joseph Benjamin Dickson,	Scranton,	25 McK.
Hunter Eckert,	Reading,	12 P.
Robert Wilson Ferguson,	Jersey Shore,	24 E.
Andrew Ross Fillebrown	Washington, D. C.,	20 McK.
Edwin Pierson Ford,	Morristown, N. J.,	1 E.
James Slough Freeman,	Worcester,	51 S.
James Madison Fritz,	Orangeville,	16 B.
Frank Lynwood Garrison,	Philadelphia,	25 McK.
Edgar Moore Green,	Easton,	Professor Green's.
Speer Wallace Guthrie,	Indiana,	8 B.
William Edward Hall,	Easton,	Mr. Hall's.
Oscar Eugene Harris,	Jersey Shore,	———
Frank McCoy Harshberger,	Milroy,	35 S.
Frank Watson Hawkins,	Pleasantville,	———
George Kerr Hawkins,	Pleasantville,	114 N. 3d St.
Nevin Chrysostom Heisler,	Easton,	406 Porter St.
Charles Hiram Heist,	Doylestown,	34 S.
Jacob Bixler Hench,	Alum Bank,	10 P.
Grant Stanley Herring,	Bloomsburg,	8 McK.
Ross Alexander Hutchison,	Easton,	215 Reeder St.
William Easton Hutchison,	Easton,	215 Reeder St.
Elisha Kent Kaine,	Uniontown,	28 McK.
James Roland King,	Kittanning,	10 M.
Robert Turney Knox,	Dayton,	15 S.
Thomas Sawyer Lark,	Millersburg,	21 McK.
George Abraham Laubach,	Easton,	14th and Bushkill St.
Jesse Reno Lerch,	Easton,	521 Ferry St.
Isaac Miller Lutz,	Lebanon,	19 S.
James Reese McCloskey,	Hyner,	36 S.
George McCurdy,	Jersey Shore,	12 E.
William Lincoln McMillen,	East Greenville, Ohio,	11 McK.
Harry Ellsworth Mandeville,	Hazleton,	———

Rufus Wilder Miller,	Easton,	34 N. 4th St.
William Hunter Miller,	Gerrardstown, W. Va.,	44 S.
George Balch Nevin,†	Easton,	671 Ferry St.
Ford C. Ottman,	Albany, N. Y.,	50 S.
Samuel Russel Park,	Circleville, N. Y.,	59 S.
William Harvey Parsons,	Unadilla, N. Y.,	59 S.
Washington Davison Patton,	Upton,	35 S.
Robert Jackson Phipps,	Kennerdell,	231 Cattell St.
Henry Howard Pounds,	Fredericktown, Ohio,	56 S.
James Rankin Rankin,	Muncy,	13 P.
William Wallace Rankin,†	Warren,	60 N. 3d St.
Percy Blackiston Russell,	Lawrence, Kansas,	45 S.
Benjamin Franklin Sandt,	Easton,	302 Cattell St.
Charles Milton Sandt,	Easton,	402 Cattell St.
William Ward Scully,	Pittsburg,	7 M.
Daniel Stoafer Seitz,	Harrisburg,	8 M.
William Irvin Shaw,	Clearfield,	14 McK.
Harry Blair Simmons,	Jersey Shore,	24 E.
Ernest Horton Sloan,†	Orangeville,	107 McCartney St.
Myer Strouse,	Pottsville,	9 P.
George Wey Swinburne, Jr.,	Newport, R. I.,	22 McK.
Charles Wilson Thomson,	Stewartsville, N. J.,	31 S.
Peter Elias Tome,	Port Deposit, Md.,	36 S.
Charles Davis Vail,	Philadelphia,	45 S.
Charles Astor Walker,	Mt. Airy,	21 S.
Frank Dudley Wickham,†	Norwalk, Ohio,	17 B.
Fred. Clark Wilcox,	Brockport,	25 McK.
Oliver Edwin Williams,	Catasauqua,	12 S.
Samuel Queen Wilson,	Pleasantville,	47 S.

FRESHMEN, - - - - 79.

SUMMARY.

POST-GRADUATES,		2
UNDERGRADUATES,	Seniors,	53
	Juniors,	61
	Sophomores,	70
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REPRESENTATION.

Pennsylvania,	186	Illinois,	2
New Jersey,	24	Massachusetts,	2
New York,	13	Rhode Island,	2
Ohio,	12	West Virginia,	2
Delaware,	7	Kansas,	1
Maryland,	3	Kentucky,	1
District of Columbia,	3	North Carolina,	1
Missouri,	3	Wisconsin.	1
California,	2		
			265

ABBREVIATIONS.

B.—Blair Hall.
McK.—McKeen Hall.
S.—South College.
E.—East Hall.
N.—Newkirk Hall.
†—Special Course.
M.—Martien Hall.
P.—Powell Hall.

Courses of Study.

CLASSICAL DEPARTMENT.

The Classical Department corresponds to the Undergraduate Department for the Degrees of A. B. and A. M. in our best Colleges. It includes courses in the following subjects:

1. Biblical Instruction.
2. Mental and Moral Philosophy.
3. History. Political Philosophy.
4. Rhetoric and Elocution.
5. Human Physiology.
6. Languages.
7. Mathematics. Astronomy.
8. Natural Philosophy.
9. Chemistry.
10. Botany. Zoology.
11. Mineralogy. Geology.

The presence in the Faculty of eminent specialists in Science and Engineering warrants the Trustees in calling attention to the scientific and mathematical studies as unusually attractive and thorough. But no less stress is laid on other subjects. The amplest opportunities are still given for the study of Philosophy and of the Ancient and Modern Languages. It is the earnest endeavor of the Board to give the whole Department greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. Pardee, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000. In 1871 Mr. Pardee made another and still larger donation for the erection of a building designed for the use of the Scientific Department.

This building, costing with its Scientific Equipment nearly Three Hundred Thousand Dollars, was completed in 1873, and upon the 21st of October of that year was formally handed over by the munificent donor to the Trustees.

It consisted of a centre building five stories in height, fifty-three feet front and eighty-six deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one in width, four stories in height, including a

mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height, the entire length of front, in a straight line, being two hundred and fifty-six feet. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied and liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The original building was burned on the evening of June 4, 1879. It is being rebuilt on the same site, of the same dimensions and external appearance. The arrangement of the interior has been much improved as experience with the former building suggested. The new structure is rapidly advancing to completion, and will be opened with appropriate public ceremonies sometime in the first term of the next College year.

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College leading to the Degree of B. S., is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have, therefore, taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other modern Classics, which has been for some years in use in the College, gives, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin. Latin, however, may be taken in this Department if the student elect; the course then leading to the Degree of Ph. B.

TECHNICAL STUDIES.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufac-

turing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL COURSE of the Scientific Department, which is designed to lay a substantial basis of knowledge and scholarly culture, courses have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. ENGINEERING, CIVIL, TOPOGRAPHICAL AND MECHANICAL.—This course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals, and other Engineering works; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining and metallurgical works.

III. CHEMISTRY.—This course includes text book study, lectures and laboratory practice, every facility for which is found in the Laboratories. Provision is made for advanced and special students who may wish to make original researches, or to study any particular department of Chemistry.

POST GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections and Libraries, while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874. Further information may be obtained by addressing the Dean of the Law Department, Hon. WILLIAM S. KIRKPATRICK.

ADMISSION.

CLASSICAL DEPARTMENT.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra to quadratics; Plane Geometry, two books; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books,) or Sallust; Virgil (the Bucolics, and six books of the Æneid;) Cicero, seven orations; Jones's Latin Prose (Allen and Greenough's Rules of Syntax;) Xenophon's Anabasis, four books; three Gospels in the Greek Testament, or three books of Homer—Odyssey preferred; Arnold's Greek Prose Composition (22 §§—or equivalent in Jones's;) or other authors fully equivalent in quantity to the above.

SCIENTIFIC DEPARTMENT.—Candidates for admission to the Freshman Class for the Scientific Course are examined in English Grammar; Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; (for Civil Engineers, Plane Geometry, entire;) the elementary principles of Natural Philosophy, and the Outlines of History. Those who elect the study of Latin are examined in the Latin required for admission to the Classical Course.

It is expected that all candidates for admission to the College will be acquainted with the general contents of the Bible.

TECHNICAL AND SPECIAL STUDIES.—Applicants for instruction in Technical or special studies are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTIONS in Engineering see page 26.

ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student is admitted to the Senior Class after the beginning of the second term.

TESTIMONIALS.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance endorsed thereon.

MATRICULATION.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

CLASSICAL DEPARTMENT.

FRESHMAN YEAR.

FIRST TERM.

Livy.
Memorabilia.
Algebra, (continued.)
Latin Prose Composition.
Greek Prose Composition.
Lectures on Health.
Classical Geography.
English Composition.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Horace.
Herodotus.
Geometry (continued.)
English Composition.
Latin Prose Composition.
Greek Antiquities.
Biblical Geography.
Old Testament in English.

THIRD TERM.

Horace.
Athenagoras.
Algebra, (completed.)
Solid Geometry.
Roman Antiquities.
English Composition.
Greek Prose Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

FIRST TERM.

Cicero, De Oratore.
Homer, Iliad.
Study of Words, Trench.
Mensuration.
Trigonometry, Plane and Spherical.
Greek Testament—Acts.

SECOND TERM.

Latin Hymns, March's.
Homer, Iliad.
Conic Sections, Coffin's.
Rhetoric.
Archæology of Greek Literature and Art.
Greek Testament—Acts.

THIRD TERM.

Plato.
French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying.
Archæology of Roman Literature and Art.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Cicero, De Officiis.
Demosthenes, De Corona.
Thucydides or Justin Martyr. } Elective.
Theoretical Mechanics. }

German.
Greek History.
Descriptive Mechanics.
Greek Testament—Romans.

SECOND TERM.

Tacitus.
Physics, (begun.)
English, Milton.
Anglo-Saxon, March's Grammar and Reader.

Constitution of the United States.
Political Philosophy.
Hebrew Commonwealth.
Greek Testament—Romans.

THIRD TERM.

Greek Tragedies.
Physics, (completed.)
English, Shakespeare.

Anglo-Saxon, (continued.)
Chemistry, with Laboratory Practice.
Greek Testament—Romans.

Throughout the Year.—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Botany. Zoology.
Anatomy and Physiology.

Juvenal and Persius. } Elective.
Lactantius. }
Rhetoric. Logic.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology. Mineralogy.
English Literature.

Blackstone. }
Chemistry. }
Astronomy, (completed.) } Elective.
Greek. French or German. }
Hebrew, Green's Grammar. }
Evidences of Christianity.

THIRD TERM.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective
Philosophy of Mathematics. }
Comparative Philology.
Geology (completed.)
Architecture.

Blackstone. }
Chemistry. }
Greek. French or German. } Elective.
Hebrew, Chrestomathy. }
History.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

PARDEE SCIENTIFIC DEPARTMENT.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (continued.)
Elements of Industrial Drawing.
English, March's Method.
English Composition.
French or Latin.
Chemistry.
Lectures on Health.
Biblical Geography, Coleman's.
Old Testament in English.

SECOND TERM.

Geometry, (continued.)
Drawing, Plane Problems.
English Composition.
Modern Languages or Latin.
Chemistry, with Laboratory Practice.
Biblical Geography.
Old Testament in English.

THIRD TERM.

Algebra, (completed.)
Solid Geometry.
Elementary Projections.
Mineralogy.
Modern Languages or Latin.
Analytical Chemistry.
English Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations and written Translations into English from French and German or Latin.

SOPHOMORE YEAR.

FIRST TERM.

Trigonometry, Plane and Spherical.
Mensuration.
Elementary Projections.
Modern Languages or Latin.
Study of Words, Trench.
English, Bunyan.
Analytical Chemistry, (optional.)
Acts of the Apostles in French.

SECOND TERM.

Conic Sections, Coffin's.
Topographical Drawing, (optional.)
Botany. Zoology.
Modern Languages or Latin.
Rhetoric.
English, Spenser.
Analytical Chemistry, (optional.)
Acts of the Apostles in French.

THIRD TERM.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying.
Botany. Zoology.
English, Chaucer.
Analytical Chemistry, (optional.)
Acts of the Apostles in French.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
French or Latin.
English, Bacon. } Elective.
Chemistry. }

Zoology.
Botany.
New Testament Epistles in German.

SECOND TERM.

Physics, (begun.)
German or Latin.
English, Milton.
Anglo-Saxon, March's Grammar and Reader.

Constitution of the United States.
Political Philosophy.
Hebrew Commonwealth.
New Testament Epistles in German.

THIRD TERM.

Physics, (completed.)
English, Shakespeare.
Anglo-Saxon, (continued.)

French or German.
New Testament Epistles in German.

Throughout the Year.—Declamations, Themes and written Debates.

SENIOR YEAR.

FIRST TERM.

Mental Philosophy, (begun.)
Astronomy, (begun.)
Rhetoric. Logic.
German or Latin.

Modern Literature.
Anatomy and Physiology.
Rule of Faith.

SECOND TERM.

Mental Philosophy, (completed.)
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology.
Mineralogy.

Modern Languages. } Elective.
Astronomy, (completed.) }
Chemistry. }
Blackstone. }
English Literature.
Evidences of Christianity.

THIRD TERM.

Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Comparative Philology.
History.
Architecture.

Chemistry. } Elective.
Blackstone. }
Modern Languages. }
Geology.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

Students in the Scientific Course, who wish to make a special study of Chemistry, have the privilege of devoting the greater part of the last two years to work in the Laboratories, electing such departments of Chemistry as they may particularly wish to pursue. See page 33.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

FIRST TERM.

Algebra, (completed.)
Elements of Industrial Drawing.
English, March's Method.
French.
Chemistry.
Lectures on Health.

SECOND TERM.

Geometry, (completed.)
Surveying.
Problems in Division of Land.
Plane Problems.
French.
German.
Chemistry, with Laboratory Practice.

THIRD TERM.

Trigonometry and Mensuration.
Surveying, Field Work.
Elementary Projections.
French.
German.
Analytical Chemistry.

Throughout the Year.—Declamations, Themes and the Bible.

SOPHOMORE YEAR.

FIRST TERM.

Analytical Geometry, (begun.)
Surveying, Field Work.
Elementary Projections.
Mineralogy.
French.
German.
Study of Words, Trench.

SECOND TERM.

Analytical Geometry, (completed.)
Topographical Drawing.
Analytical Chemistry, (optional.)
Botany. Zoology.
French.
German.
Mineralogy.

THIRD TERM.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoology.
French.
German.
Determinative Mineralogy.

Throughout the Year.—Declamations, Themes and the Bible.

JUNIOR YEAR.

FIRST TERM.

Descriptive Geometry, (General Orthographic Projections.)
Triangular Surveying; Field Work, Adjustment of Instruments.
French.
Mechanics.
Lithology.
Practice with the Blowpipe.

SECOND TERM.

Physics, (begun.)
Calculus, (continued.)
Shades and Shadows.
Road Engineering—Theory, (begun.)
Colored Topography.
Hydrographical Surveying.

THIRD TERM.

Physics, (completed.)
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Road Engineering—Theory, (completed.)

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

FIRST TERM.

Water Supply.
Road Engineering—Practice.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.

SECOND TERM.

Machinery and Motors.
Stone Cutting.
Strength of Materials.
Stability of Structures.
Supply and Distribution of Water.
Astronomy.
Political Economy.
Geology.
Mineralogy.

THIRD TERM.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
Graphical Statics.
History.
Geology.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

MINING ENGINEERING.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING COURSE.

JUNIOR YEAR.

FIRST TERM.

Mechanics.
Mine Surveying. Adjustment of Instruments.
Analytical Chemistry.
French.
Lithology.
Practice with the Blow-pipe.

SECOND TERM.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
German.
Assaying.
Maps of Surveys.

THIRD TERM.

Topographical Surveying.
Map of Topographical Survey.
Analytical Chemistry.
French or German.
Analytical and Applied Mechanics.

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

FIRST TERM.

Mining.
Ore Deposits.
Analytical Chemistry.
Machine Drawing.
General Theory of Machines.

SECOND TERM.

Mining.
Analytical Chemistry.
Machinery and Motors.
Geology. Mineralogy.
Political Economy.
Supply and Distribution of Water.

THIRD TERM.

Mining.
Metallurgy.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
History.
Geology.
Analytical Chemistry.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

WORKING SECTION.—Graduates of Schools of Science and Practical Engineers wishing to devote all their time to thorough preparation for professional employment in Civil Engineering, may enter without examination, the SENIOR CLASS, which is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus. Others wishing to enter the Section must pass an examination on the studies leading to the work of the Section. Those completing the work of the Section may obtain from the Faculty a certificate to that effect.

Further information may be had by addressing the Dean of the Pardee Scientific Department.

SPECIAL REMARKS ON THE COURSE OF STUDIES.

BIBLICAL INSTRUCTION.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year are studied the old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Hopkin's Outline Study of Man are used as text books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy.
SENIOR YEAR.	*First Term.*	History of Modern Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the history of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Systematic instruction and training in Elocution is given through the whole College course. The Seniors speak original and the other classes selected pieces.

In addition to the regular class speaking of each week, there is held, on the first Wednesday of each month, an exercise at which speakers from the three upper classes appear before an audience consisting of the entire body of students and faculty and invited guests. In making the appointments, which are purely honorary, for this exercise, regard is had both to natural ability and to faithful work in the regular class speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practiced. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology, (continued.) Prosody, (Latin.)
SOPHOMORE YEAR.	*First Term.*	Syntax, (begun.) Prosody, (Greek.)
	Second Term.	Historical Etymology.
	Third Term.	Syntax, (modes and tenses.)

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at the time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Cicero, and Plato, in these relations.

The text-books of the Douglass series of Christian Greek and Latin writers are used in a part of the course as follows: Freshman year, third term, Athenagoras; Sophomore year, second term, Latin Hymns; Junior year, first term, Justin Martyr, (elective;) Senior year, first term, Lactantius, (elective.)

In this department the following books are used: Harpers' New Latin Lexicon, Allen and Greenough's Latin Grammar for drill, Madvig's and Roby's for reference, Goodwin's Greek Grammar for drill, Crosby's and Hadley's for reference, Goodwin's Greek Modes and Tenses, Liddell and Scott's Lexicon, Eschenburg's Manual and Long's Classical Atlas.

English, French, German, &c.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed: the mythology, biography, history, metaphysics, theology, geography are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from our language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is pursued in the Classical Course.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. William C. Fowler, LL. D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English Classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1879 were examined on Wordsworth. The prize was awarded to Reed Caughey. The Class of 1880 will be examined on Poe.

THE HARVEY PRIZE.—An English Prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A. M., of the Class of 1871.

In the Class of 1880 it was awarded to J. M. Cattell.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1879, offered by the London Society of that name, for the best examination in English before Chaucer, was won by J. M. Cattell, for the best examination in Anglo-Saxon Chronicle.

THE NEW SHAKESPEARE SOCIETY'S PRIZE for 1879, offered by the London Society of that name, for the best examination in Shakespeare, was won by J. W. Farquhar of 1880.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra, (continued.)
	Second Term.	Geometry, (continued.)
	Third Term.	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Xhird Xerm.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics, (begun.)) See Physics, p. 33.
	Xhird Term.	Physics, (completed.))
SENIOR YEAR.	*First Term.*	Astronomy, (begun.)
	Second Term.	Astronomy, (completed.)

Students in the Technical Courses study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Scientific Course see page 22 and 23.

Text books are used as mentioned on pages 20 and 21, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field-work of every kind. In astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded for proficiency in the Astronomical studies of the Senior year.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical or Scientific, and Technical, to a member of the Junior Class. In 1879 these prizes were awarded to J. M. Cattell in the Classical Department, and W. V. Olyphant in the Technical Department.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 24–26.

In Physics, as well as in Astronomy, Chemistry, Engineering and Natural History, the studies are illustrated by wall-charts, thirteen hundred in all, many of which give illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to work in the laboratory, under the direction of the Professor; and they may pursue Analytical Chemistry through the rest of the course. The Chemical students of the General Scientific Course spend during their last two years the greater part of their time in the laboratory, electing such chemical and related studies or investigations as they may wish to pursue. The instruction is then mainly individual, and a student's progress depends on his ability and industry.

Partial or special students may enter the laboratories at any time, provided they have the necessary knowledge of general chemistry to work advantageously. Advanced students will be afforded opportunity for continuing their studies, or for conducting investigations in organic or inorganic chemistry.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoology.
JUNIOR YEAR.	*First Term.*	Zoology.
SENIOR YEAR.	*First Term.*	Botany. Zoology.
	Second and Third Terms.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science,—field excursions for observations and collection, preparation and care of specimens, drawing, the use of microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years' labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures on the connections between Natural Science and Revealed Religion.

In MINERALOGY the classes have the advantage of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 25–26.

HUMAN PHYSIOLOGY.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The lectures in this department are thorough and practical, illustrated by a manikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel daily, and preaching on the Sabbath. A daily social prayer meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

DEGREES.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department; the degree of BACHELOR OF SCIENCE on graduates of the Scientific Department, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER. Graduates who have taken the special studies in Mining Engineering, Metallurgy and Chemistry may receive certificates of the same, or have the fact stated upon their Diplomas.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two

years Post Graduate studies at the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character. Those desiring the MASTER'S degree should make written application to the Clerk of the Faculty six weeks before Commencement.

Doctor's Degree.—Graduates of the College of three years' standing, and resident students of post graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, if they have been in attendance not less than one year.

LIBRARIES AND READING ROOM.

The College Library is open Thursday, Friday and Saturday at nine o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at the regular meetings.

The EASTONIAN HALL is fitted up as a Reading room, and is supplied with the best newspapers and periodicals of America, England, France, and Germany. Dictionaries, cyclopædias, and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted) for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett of Baltimore. There is also a full length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans of Paris.

Societies.

There are two literary societies in the College, the Washington and the Franklin, which have well furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceeding Commencement the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The Brainerd Evangelical Society, as a Society of Inquiry, meets on the first Wednesday of each month, in the interests of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The Natural History Society, Professor Porter, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The Chemical Society, Professor Drown, President, has for its object the preparation and discussion of papers on chemical or allied subjects. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of Physics and Engineering, Professor Moore, President, has for its object the investigation and discussion of subjects connected with these departments.

The Alumni Association is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday preceding Commencement-day.

Terms and Vacations.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

EXPENSES.

Tuition (to those not on scholarships) in the Classical or General Scientific Department,	$15 00	a term
Tuition in Technical Studies or Chemical Sections,	25 00	"
General Expenses,	8 00	"
Library and Reading Room,	2 00	"

The annual College charges are therefore, for those who pay tuition in full, $75.00 for the Classical or General Scientific Course; and $105.00 for Technical Studies. Each student pays $5.00 when he is registered on entering college, and $10.00 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus. No fees are charged for diplomas.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories Members of the Classical Department are admitted to all the privileges of the laboratories while studying General Chemistry, and for the present, without charge for the aid of the Professor in attendance; each student will, however, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the Classical Course will hold good for the Pardee Scientific Department, unless the student shall select Technical Studies, in which case he must pay each term one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs managed by the students is from $1.75 to $3.00 per week.* Board, including furnished room in private families, is from $5 to $7 per week. Unfurnished rooms in the College building may be had at a cost of from five to fourteen dol-

*There are at the present time seven of these Clubs. The price of board per week in each is as follows:—(1) $1.75; (2) $1.85; (3) $2.00; (4) $2.25; (5) $2.50; (6) and (7) $3.00. About fifty of the students board in Clubs, in which the price of board per week is two dollars or less.

lars a term (average $8). Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance, also the room rent, when the student occupies a room in the College buildings. The Treasurer also, on behalf of the Committee of Students, collects with the College bills at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.07. A deposit of one dollar is also made at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and traveling expenses—need not exceed $250, as will be seen from the following summary:

COLLEGE CHARGES.

General Expense,	$24 00	
Library and Reading Room,	6 00	$30 00

INCIDENTAL EXPENSES.

Fees and dues, Literary and Scientific Societies, (estimated)	$ 8 00	
Text-books and Stationery, (estimated)	20 00	$28 00

PERSONAL EXPENSES.

Board for 39 weeks, (at lowest club rates, see note, p. 37)	$68 25	
Room Rent, (average as above)	24 00	
Fuel, (average as above)	6 75	
Light and Washing, (estimated)	24 00	$123 00
		$181 00
Leaving a balance for contingencies,		69 00
Total as above,		$250 00

Board at the highest club rates, $3.00 per week, would add $48.75 to the above estimate, but would still bring the annual expenses within the two hundred and fifty dollars.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Recent Additions.

The Department of Chemistry has received during the past year chemical apparatus and chemicals from Dr. Thomas Ryerson, Newton, N. J.

The Library has received gifts from Gen. Wm. S. Stryker, N. J.; Hon. J. Donald Cameron; Hon. S. A. Bridges; Hon. Thomas McCamant, of '61; Hon. Matthew S. Quay; The Second Geological Survey of Pennsylvania; The Smithsonian Institute; The U. S. Commissions and the Heads of Departments at Washington.

The Mineralogical Cabinet has received from Dr. C. Lee Stevens, of '76, specimens of Geodes from Iowa Survey.

Bequests and Devises.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to the "Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, &c, to "the Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college according to the provisions of its charter.

DEGREES

CONFERRED AT THE

LAST ANNUAL COMMENCEMENT, JULY 2, 1879.

Elliott Chidsey Armstrong,
Jacob Edgar Belville,
Henry Herrman Bimm,
Charles Gibson Brown,
Augustus James Burgner,
Frederick Gillet Byles,
Reed Caughey,
Charles Andrew Craighead,
Martin Luther Deitzler,
Augustus Theodore Dobson,
Leonard Bertner Eyster,
Irvine Moore Flinn,
Francis Heck,
Frank Whitehill Hinkle,
Stewart Maurice Hohl,
William John Jones,
John Benjamin Litchtenwallner,
Herman Keller McCauley,
George Davidson McDowell,

George Read Lawrence,

Edmund Swalm Boyer,
Lewis Grant,
Hiram Bacon Howland,

James Elliott,

Samuel Sebring Hartranft, '78.

I. Barber, '76,
J. B. Graham, '76,
T. A. H. Hay, '76,
J. B. Hendry, '76,
M. H. Jones, Jr., '76,
W. A. May, '76,
W. H. McCurdy, '76,

A. B.

William Hollingsworth Mackall,
Jacob Levi Markel,
Frank Pardee,
George Wehn Plack,
Milton Edward Schadt,
Irwin William Schultz,
Herbert Mendelssohn Seem,
Norcom Linington Seguin,
Harvey Shaw,
Benjamin Hoopman Silver,
Maxwell Gayley Simpson,
William Irwin Steans,
William Black Steel,
Archibald Thompson Stewart,
Thomas Louis Stoneroad,
William Henry Walters,
Reuben Alexander Zimmerman,
John Bascom Taylor, '77.

PH. B.

Charles Paxton Knapp, '77.

B. S.

Frank Delmar Kinnear,
Winfield Lattin Parsons,
Casper Dull, '77.

C. E.

Hidetake Taro Yegawa.

A. C.

A. M.

H. E. Raesly, '76,
W. R. Sewell, '76,
C. L. Stevens, '76,
J. F. R. Appleby, '64,
D. W. Bruckart, '73,
H. G. Mendenhall, '74.

M. S.

J. B. Fuller, '76, R. B. Rice, '76,
H. D. Michler, '76, W. H. Harrison, '75.

A. M., HONORARY.

J. V. Montgomery, Professor in Normal School, Millersville, Pa.
Harrington Emerson, Professor of Modern Languages, University of Nebraska.
Jacob L. Ziegler, M. D., Mt. Joy, Pa.

D. D., HONORARY.

Rev. James W. Wood, '37.

PH. D., HONORARY.

Albert N. Raub, Principal of Normal School, Lock Haven, Pa.
A. H. Fetterolf, Principal of Andalusia Hall.

Degrees Conferred at the meeting of the Board in January, 1879.

A. M., HONORARY.

Dr. Thomas M. Drysdale, Philadelphia.
Dr. Hugo Engle, Philadelphia.

APPOINTMENTS FOR COMMENCEMENT DAY.

HONORARY ORATIONS EQUAL IN RANK.

Maxwell Gayley Simpson, - - - *The Latin Salutatory.*
William Irwin Steans, - - - - *The Valedictory.*

ORATIONS.

Reed Caughey, *Philological*,
Martin Luther Deitzler, *Philosophical*,
Harvey Shaw, *Classical*,
Irwin William Schultz, *Historical*,
Elliott Chidsey Armstrong,
Jacob Edgar Belville,
Edmund Swalm Boyer,
Augustus James Burgner,
Frederick Gillet Byles,
Leonard Bertner Eyster,
George Reed Lawrence,
Winfield Lattin Parsons,
George Wehn Plack,
Norcom Linington Seguin,
Benjamin Hoopman Silver,
William Black Steel,
William Henry Walters,
Hidetake Taro Yegawa.

APPOINTMENTS FOR JUNIOR ORATOR CONTEST.

WASHINGTON HALL.

Morton Shelly Bailey,
William Samuel Cason,
William Wilberforce Smith,
William Guy Wells,

FRANKLIN HALL.

Robert Welsted Beers,
Muscoe Minor Gibson,
Herbert Miller Hagerman,
John Grandin Reading.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

LAFAYETTE COLLEGE

FOR THE

YEAR 1880–1881,

WITH THE COURSES OF STUDY.

EASTON, PA.
1881.

College Calendar.

1880.

September 2, Thursday.—First term began.
December 22, Wednesday.—First term ended.

VACATION OF TWO WEEKS.

1881.

January 6, Thursday.—Second term begins.
January 27, Thursday.—Day of Prayer for Colleges.
February 22, Tuesday.—Anniversary of the Washington Literary Society.
March 15, Tuesday.—Junior Orator Contest.
March 23, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

April 7, Thursday.—Third term begins.
June 13–15.—Final examination of the Senior Class.
June 23–27.—Examination of the lower classes.
June 26, Sunday.—Baccalaureate Sermon.
June 26, Sunday.—Anniversary of the Brainerd Missionary Society.
June 26, Sunday.—Sermon before the Christian Brotherhood.
June 27, Monday.—Senior Class Day and Concert.
June 28, Tuesday.—Reunion Meetings of the Literary Societies.
June 28, Tuesday.—Technical Theses read and defended.
June 28, Tuesday.—Alumni Oration and Social Reunion.
June 28, Tuesday.—Oration before the Literary Societies.
June 29, Wednesday.—Commencement Exercises.
June 30, Thursday.—Examinations for admission.

VACATION OF NINE WEEKS.

August 30–31, Tuesday and Wednesday.—Examinations for admission.
September 1, Thursday.—First term begins.
October 26, Wednesday.—Founder's Day.
November 24, Thursday.—Thanksgiving Day.
November 26, Saturday.—Anniversary of the Franklin Literary Society.
December 21, Wednesday.—First term ends.

VACATION OF TWO WEEKS.

1882.

January 5, Thursday.—Second term begins.
March 22, Wednesday.—Second term ends.

VACATION OF TWO WEEKS.

Trustees.

Major-General ROBERT PATTERSON, *President*,	Philadelphia.
Rev. S. M. ANDREWS, D. D.,	Doylestown.
WILLIAM C. LAWSON,	Milton.
Rev. SAMUEL F. COLT,	Laporte.
Rev. AARON H. HAND, D. D.,*	Easton.
Rev. WILLIAM C. CATTELL, D. D.,	Easton.
A. PARDEE,	Hazleton.
Rev. J. H. MASON KNOX, D. D.,	Bristol.
JOHN WELLES HOLLENBACK,	Wilkes-Barre.
WILLIAM DORRIS,	Huntingdon.
JOHN CURWEN, M. D.,	Harrisburg.
THOMAS DICKSON,	Scranton.
THOMAS L. McKEEN,	Easton.
BENJAMIN G. CLARKE,	New York City.
C. DELANO WOOD,	Brooklyn, N. Y.
Hon. A. G. RICHEY,	Trenton, N. J.
Hon. ALFRED HAND,	Scranton.
JAMES A. McKNIGHT,	Chambersburg.
JAMES W. LONG,	Easton.
Rev. SAMUEL T. LOWRIE, D. D.,	Greensburg, N. J.
A. S. PATTERSON,	Harrisburg.
Rev. N. S. McFETRIDGE,	Philadelphia.

SAMUEL L. FISLER, *Secretary and Treasurer*, Easton.

MEETINGS OF THE TRUSTEES.

Wednesday, October 27, 1880, Founder's Day.
Wednesday, January 26, 1881, Annual Business Meeting.
Tuesday, June 28, 1881, Commencement Week.

* Died, March 3, 1880.

Faculty.

Rev. WILLIAM C. CATTELL, D. D., LL. D., President,
And Professor of Mental and Moral Philosophy.

TRAILL GREEN, M. D., LL. D.,
Professor of General Chemistry.

FRANCIS ANDREW MARCH, LL. D.,
Professor of the English Language and Comparative Philology.

Rev. JOHN LEAMAN, A. M., M. D.,
Professor (Emeritus) of Human Physiology and Anatomy.

Rev. LYMAN COLEMAN, D. D.,
Professor of Latin and of Biblical and Physical Geography.

Rev. THOMAS C. PORTER, D. D., LL. D.,
Professor of Botany and Zoology.
(Jessie Chamberlain Professorship of Botany.)

Rev. AUGUSTUS A. BLOOMBERGH, Ph. D.,
Professor of Modern Languages.

Rev. ROBERT BARBER YOUNGMAN, Ph. D.,
Professor of Greek Language and Literature.

FREDERICK PRIME, Jr., A. M.,
Lecturer on Metallurgy and Mineralogy.

ROSSITER W. RAYMOND, Ph. D.,
Lecturer on Mining Geology.

Rev. SELDEN JENNINGS COFFIN, Ph. D.,
Professor of Mathematics and Astronomy.
(George Hollenback Professorship of Mathematics.)

JAMES W. MOORE, A. M., M. D.,
Professor of Mechanics and Experimental Philosophy.

JUSTUS MITCHELL SILLIMAN, M. E.,
George B. Markle Professor of Mining Engineering and Graphics.

JOSEPH G. FOX, C. E.,
Professor of Civil and Topographical Engineering.

THOMAS M. DROWN, M. D.,
William Adamson Professor of Analytical Chemistry.

Rev. ADDISON BALLARD, D. D,
Professor of Moral Philosophy and Rhetoric.

JOSEPH JOHNSTON HARDY, A. M.,
Adjunct Professor of Mathematics.

DAVID BENNETT KING, A. M.,
Adjunct Professor of Latin.

WM. BAXTER OWEN, A. M.,
Adjunct Professor of Greek.

JOHN G. DIEFENDERFER, A. M.,
Adjunct Professor of Modern Languages.

EDWARD HART, Ph. D.,
Adjunct Professor of General Chemistry.

W. F. WORTHINGTON, Assistant Engineer, U. S. N.,
Assistant Professor of Applied Mechanics and Instructor in Steam Engineering.

ALLEN P. BERLIN, C. E.,
Adjunct Professor of Mathematics.

FRANCIS ANDREW MARCH, LL. D.,
Librarian.

Rev. R. B. YOUNGMAN, Ph. D.,
Clerk of the Faculty.

Wm. H. Weaver, *Janitor.*

Students.

POST-GRADUATES.

NAMES.	COLLEGE.	SPECIAL STUDY.
John Potts Fillebrown, M. E.,	Lafayette, 1880,	Chemistry.
Franklin Prince, M. E.,	Polytechnic, Phila., 1872,	Mining.
Joseph K. Chickering, A. M.,	Associate Professor of English in Amherst College, Amherst, 1869,	Anglo Saxon.

UNDERGRADUATES.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Absalom Peter Bachman,	Easton,	1152 Northampton St.
William Smith Barnes,	Waynesboro,	33 S.
Charles Milford Bergstresser,	Berrysburg,	103 N.
John Franklin Biggs,	Summit Bridge, Del.,	115 M.
Henry Gough Birchby,	Philadelphia,	14 S.
West Bissell,	Rochester, N. Y.,	330 Spring Garden St.
Thomas Blatchford Boughton,	Troy, N. Y.,	Professor Silliman's.
Robert Patterson Boyd,	Chestnut Level,	44 S.
James Campbell,	Manalapan, N. J.,	38 S.
Frank Herring Chalfant,	Martin's Ferry, O.,	200 McCartney St.
William Parker Chalfant,	Martin's Ferry, O.,	200 McCartney St.
Thomas Culbertson Clark,	Martin's Ferry, O.,	200 McCartney St.
Robert Merritt Collins,	St. Clairsville, Ohio,	57 S.
Julius Tozer Corbin,	Athens,	22 S.
William Dickey Crosby,	Oxford,	215 Reeder St.
Charles William Davenport,	Erie,	157 P.
John Rumsey Davies,	Scranton,	37 S.
William Herbert Emanuel,	Catasauqua,	133 McK.
Charles Conner Evans,	Berwick,	131 McK.
Joseph Horn Evans,	Easton,	432 Ferry St.
Harry Crawford Frankenfield,	Easton,	1042 Lehigh St.

Clarence Elmer Griffin,	Easton,	819 Spruce St.
John Henry Grossmann,	Salem, N. J.,	175 E.
Andrew Neely Hagerty,	West Alexander,	47 McCartney St.
James Harvey Harrison,	Pittsburgh,	225 Northampton St.
Edward McElwain Haymaker,	Philadelphia,	57 S.
James Breading Hogg,	Connellsville,	123 McK.
Robert Henry Hoover,	Waynesboro,	33 S.
Samuel Gulick Hutchison,	Bangor,	50 S.
George Massey Jones,	Dover, Del.,	160 P.
Asa Sharpe Keeler,	Keelersburg,	5 Bank St.
Peter Simon Keiser,	Lebanon,	38 S.
Edwin Luther Kenney,	Griggsville, Ill.,	47 S.
Pearce Kintzing,	Lock Haven,	121 McK.
William Koch,	Phillipsburg, N. J.,	359 Lewis St.
Levi Finley Laverty,	Finleyville,	89 N.
Robert Benjamin Lehman,†	Newberne, N. C.,	182 E.
William J. C. Loos,	Bethlehem,	118 M.
Albert Clark McCauley,	Altoona,	131 McK.
Francis Andrew March, Jr.,	Easton,	Professor March's.
Cuvier Robb Marshall,	Parkesburg,	161 E.
James Henry Maxwell,	Pottstown,	117 M.
John Stone Morrison,	Philadelphia,	117 M.
John Adams Muir,	Stewartstown,	44 S.
George Everett Osterhout,	Tunkhannock,	92 N.
Frank Edwin Pellet,	Papakating, N. J.,	47 S.
Francis Henry Register,	Lewes, Del.,	134 McK.
Nathan Grube Reiff,	Pottstown,	116 M.
William N. Ruby,	Perrysville, Ohio,	56 S.
Andrew Eliason Sanborn,	Mt. Pleasant, Del.,	115 M.
Edwin Livingston Scott,	Washington, D. C.,	113 E.
William Oliver Semple,	Easton,	223 Northampton St.
Alfred Jones Shattuck,	Blossburg,	139 McK.
Charles Bunstein Stover,	Easton,	217 Northampton St.
Charles Lissle Wilson,	Carthage, Mo.,	121 McK.
James Wilson,	Greenville, Del.,	111 M.
Philip Samuel Zieber,	Reading,	113 M.

SENIORS, - - - - 57.

JUNIOR CLASS.

George Auchy,†	Pottstown,	183 E.
John Townsend Baker,†	Easton,	130 McCartney St.
Benjamin Stanley Banks,	Norristown,	129 McK.
Daniel Theodore Bauman,	Zwingle, Iowa,	———
Milton Jacob Bliem,	Slatington,	13 S.
Robert Henry Agnew Boyd,	Belvidere, N. J.,	80 B.
Jacob Peter Breidinger,	Stockertown,	16 S.
John Wright Campbell,	Altoona,	153 P.
Percival Carskaddon,	Lock Haven,	51 S.
John Jonas Chester,	Newark, Ohio,	117 M.
William Edward Coleman,	Schooley's Mountain, N. J.,	———
Lewis Redner Dalrymple,	Lock Haven,	51 S.
James Frear Day,	Tunkhannock,	118 M.
Francis Eugene Dow,	Hackettstown, N. J.,	———
James Clifton Edgar,	New York City,	22 S.
Frederick Vanduzor Frisbie,	Orwell,	13 S.
William John Fulton,	Bryansville,	49 S.
Harry Scott Gay,	Shenandoah,	8 M.
Wallace Scott Harlan,	Coatesville,	74 B.
Edward Samuel Herbert,	St. Clair,	124 McK.
Valentine Hummel,†	Harrisburg,	157 P.
Quincy E. Cookman Kendall,	Lenox, Mass.,	129 McK.
Alexander Carson LaBarre,	Slateford,	163 E.
Marcus Bachman Lambert,	Stouts,	16 S.
Charles Henry Lerch,	Easton,	34 Cattell St.
Edward Lewers,	Easton,	341 Lehigh St.
Albert David Light,	Lebanon,	173 E.
Charles Edwin Ludington,	Albany, N. Y.,	141 McK.
Edward Dickinson McCulloch,	Peoria, Ill.,	154 P.
Samuel Johnson McCulloch,	Erwin Centre, N. Y.,	179 E.
Orvis Dell McHenry,	Still Water,	130 McK.
Henry Martin Marple,	Callao, Mo.,	97 N.
Henry D. Maxwell,	Easton,	143 Bushkill St.
Charles Stuart Melvin,	Oakland, Cal.,	141 McK.
Richard McCarty Michler,	Toledo, Ohio,	138 McK.
Nicholas Hunter Muhlenberg,†	Reading,	128 McK.
John Bruner Myers,	Lock Haven,	165 E.
William Baxter Myers,	Bethlehem,	123 McK.
George Washington North,	Uhlersville,	153 Union St.

John Wesley Nute,	Easton,	49 McCartney St.
John Campbell Patton,	Indiana,	127 McK.
Daniel Reed, Jr.,	Easton,	———
Joseph Taft Rice,	Albany, N. Y.,	———
George Katzenbach Ronan,	Trenton, N. J.,	154 P.
George Flemming Sandt,	Easton,	463 Northampton St.
Louis Gustav Schultz,	Phillipsburg, N. J.,	Hudson St.
William Adam Seibert,	Easton,	526 Northampton St.
Orrin Serfass,	Easton,	453 Northampton St.
George Quinton Sheppard,	Bridgeton, N. J.,	———
Samuel Eakin Shull,	Martin's Creek,	———
Orlo Skinner,	Fostoria, Ohio,	110 M.
Frederick Starr,	Auburn, N. Y.,	60 S.
John Pfouts Stevens,	Jersey Shore,	173 E.
Joseph Ross Strawbridge,	New Park,	36 S.
Charles Henry Swan,	Trenton, N. J.,	———
Charles Herbert Talmage,	St. Louis, Mo.,	49 McCartney St.
Gabriel David Thomas,	Altoona,	127 McK.
Winthrop Fuller Victor,	Hohokus, N. J.,	124 McK.
Robley Dunglison Walter,	Butztown,	464 Northampton St.
Judson Perry Welsh,	Orangeville,	107 McCartney St.
Edward Ditmars Wetmore,	Warren,	128 McK.

JUNIORS, - - - - 61.

SOPHOMORE CLASS.

Chester Eben Albright, Jr.,	Muncy,	137 McK.
Carrol Phillips Bassett,	Newark, N. J.,	72 B.
William Cooper Bond,	Sugar Hill,	116 M.
George B. McClellan Bower,	Tamaqua,	———
Frederick Brandenburg,†	Pittston,	23 S.
Elmer Collins Brown,	Huntingdon,	102 N.
Harry Anderson Brown,†	Huntingdon,	104 N.
VanRensselaer Brown,†	Sherrard, W. Va.,	43 S.
William Richard Campbell,	Orangeville,	231 Cattell St.
Daniel Avery Capwell,†	Factoryville,	90 N.
Harry Ware Cattell,	Easton,	President Cattell's.
George Finch Chamberlin,†	Croton Falls, N. Y.,	14 S.
Yung Kwei Chun,	Canton, China,	231 Cattell St.

Brentano Clemens,	Easton,	435 Northampton St.
Harry Edmund Colvin,	Schellsburg,	126 McK.
George Good Elvan Datesman	Mahanoy City,	137 McK.
Joseph Benjamin Dickson,	Scranton,	143 McK.
Hunter Eckert,†	Reading,	158 P.
Robert Wilson Ferguson, †	Jersey Shore,	181 E.
Andrew Ross Fillebrown,	Washington, D. C.,	138 McK.
Edwin Pierson Ford,	Morristown, N. J.,	73 B.
James Slough Freeman,	Worcester,	36 S.
James Madison Fritz,	Orangeville,	78 B.
Edgar Moore Green,	Easton,	Professor Green's.
Speer Wallace Guthrie,	Indiana,	67 B.
William Edward Hall,	Easton,	Mr. Hall's.
Frank McCoy Harshberger,	Milroy,	35 S.
Jacob Bixler Hench,	Alum Bank,	156 P.
Grant Stanley Herring,	Bloomsburg,	146 McK.
Ross Alexander Hutchison,	Easton,	215 Reeder St.
William Easton Hutchison,	Easton,	215 Reeder St.
Elisha Kent Kaine,	Uniontown,	134 McK.
Oliver Sabold Keely,	Roxboro,	135 McK.
James Roland King,†	Kittanning,	114 M.
Robert Turney Knox,	Dayton,	114 M.
George Abraham Laubach,	Easton,	14th and Bushkill St.
Jesse Reno Lerch,	Easton,	521 Ferry St.
James Reese McCloskey,	Hyner,	45 S.
Joseph Alexander McCurdy,	Indiana,	——
John Stevenson McMaster,	Pocomoke City, Md.,	28 S.
William Lincoln McMillen,	East Greenville, Ohio,	68 B.
Rufus Wilder Miller,	Easton,	34 N. 4th St.
William Hunter Miller,	Gerrardstown, W. Va.,	34 S.
Ford C. Ottman,	Albany, N. Y.,	50 S.
Samuel Russel Park,	Circleville, N. Y.,	59 S.
William Harvey Parsons,	Unadilla, N. Y.,	59 S.
Washington Davison Patton,	Upton,	——
Robert Jackson Phipps,	Kennerdell,	35 S.
Henry Howard Pounds,	Fredericktown, Ohio,	56 S.
Edward Dupont Ridgely,	Dover, Del.,	160 P.
William John Rourke,	Reading,	30 S.
Benjamin Franklin Sandt,	Easton,	302 Cattell St.
Charles Milton Sandt,	Easton,	402 Cattell St.
William Ward Scully,†	Pittsburgh,	111 M.

Daniel Stoafer Seitz,	Harrisburg,	112 M.
William Irvin Shaw,	Clearfield,	130 McK.
Harry Blair Simmons,	Jersey Shore,	184 E.
Myer Strouse,†	Pottsville,	155 P.
George Wey Swinburne, Jr.,	Newport, R. I.,	140 McK.
Arthur Russel Taylor,	Williamsport,	58 S.
Charles Wilson Thomson,	Stewartsville, N. J.,	34 S.
Peter Elias Tome,	Port Deposit, Md.,	24 S.
Charles Davis Vail,	Philadelphia,	144 McK.
Charles Astor Walker,	Mt. Airy,	144 McK.
Oliver Edwin Williams,	Catasauqua,	12 S.
Samuel Queen Wilson,	Pleasantville,	22 S.
Chung Liang Wong,	Canton, China,	231 Cattell St.

SOPHOMORES, - - - 67.

FRESHMAN CLASS.

George Purseglove Adamson,	Philadelphia,	180 E.
James Barnes Baker,	Elizabeth, N. J.,	324 Spring Garden.
Ernest Abram Barden,	Eldred,	147 E.
Delbert Barney,	Wilkes Barre,	76 B.
Irenaeus Prime Bartley,	Bartleyville, N. J.,	168 E.
Albert Allan Bird,	Penfield,	77 B.
Austin Boyer,†	Weisport,	112 M.
William Franklin Brittain,	Muncy,	45 S.
Charles Michael Butz,	Easton,	67 N. 4th St.
James Laurence Cain,	Bayside, N. Y.,	142 McK.
Arthur Bates Camp,	Cherrytree,	75 B.
Anthony Charles Campbell,	Wilkes Barre,	76 B.
George Troutman Carter,	Pottsville,	153 P.
William Ashburner Cattell,	Lincoln University,	182 E.
Samuel Powhatan Carter, Jr.,	Washington, D. C.,	102 N.
George Newton Chalfant,	Martin's Ferry, O.,	200 McCartney St.
George Amasa Chase,	Great Bend,	159 P.
Paul Powless Clarke,	Danville, N. J.,	19 S.
Robert Grant Clifton,	Easton,	1242 Northampton St.
Emerson Collins,	Balls Mills,	167 E.
Charles Collmar,	Easton,	540 Northampton St.
Henry Porter Cooley,	Georgia, Vermont,	172 E.
Robert Smith Coryell,	Williamsport,	142 McK.

Bernard Roessing Creighton,	Philadelphia,	136 McK.
Barclay Hutchinson Depue,	Harmony, N. J.,	21 S.
William M. Dunn,	Eureka,	N. Water St.
George Goodell Earle,	Freehold, N. J.,	15 S.
William Allen Edwards,	Harrington, Del.,	28 S.
Benjamin Caryl Ely,	Girard,	147 P.
William Evans,	Easton,	432 Ferry St.
John Stephen Fackenthall,	Easton,	7 Lehn's Court.
Benjamin Rush Field,†	Easton,	411 Northampton St.
Frederick Lorenz Fox,	Springfield, Ill.,	135 McK.
Peter Wilson Frace,	Easton,	Mr. Frace's.
William Austin Furman,	Lawrenceville, N. J.,	———
Walter Charles Gilmore,	Balls Mills,	167 E.
James Harry Griffith,	Honeybrook,	166 E.
John Quintin Griffith,	Honeybrook,	166 E.
Horace Heydt,	Lehighton,	27 S.
John Witherow Hill,	Carrick Furnace,	19 S.
Frank Trevor Hogg,	Brownsville,	32 S.
William Hoppaugh,	Pattenburgh, N. J.,	27 S.
Edward Stanton Horner,	Turbotsville,	24 S.
John King Horner,†	Bath,	176 E.
Hilbert Hudson Hulme,	Benton,	78 B.
Green Robbins Hulsizer,	Easton,	117 N. 3d St.
Martin Bell Hutchison,	Hollidaysburg,	99 N.
David Magie James,†	Bath,	58 S.
John Gundry Jennings,	Brady's Bend,	136 McK.
John Vaughan Keeler,	Wyalusing,	30 S.
John Benjamin Kolb,†	Shenandoah,	920 Washington St.
Arthur Gillum Krug,	Campinas, Brazil,	145 McK.
George Henry Krug,	Campinas, Brazil,	145 McK.
Kwong Yung Kwang,	Canton, China,	47 McCartney St.
Jacob Dickson Landes,	Mechanicsburg,	———
William Lantz,	Belvidere, N. J.,	79 B.
John Lear,	Stockertown,	302 Cattell St.
Charles Edward Lerch,	Easton,	521 Ferry St.
Jacob Lott Ludlow,	Sea Plain, N. J.,	15 S.
Elmer Ellsworth McAdoo,	West Lebanon,	202 McCartney St.
George McCurdy,	Jersey Shore,	175 E.
James McGalliard,	Bridgeton, N. J.,	46 S.
Amos Kinzer McIlvain,†	Bellemonte,	49 S.
Burr William McIntosh,	Pittsburgh,	111 M.

Peyton Conway March,	Easton,	Professor March's.
John Whilldin Marcy,	Camden, N. J.,	32 S.
James Monroe Maurer,	Mt. Carmel,	91 N.
Irving Maxwell,	Bridgeton, N. J.,	46 S.
William Laurence Meyers,†	Easton,	213 McCartney St.
John Ray Miller,	Mifflinburg,	30 S.
Charles Harry Moore,	Pottstown,	132 McK.
Aaron Rensselaer Niles,	Wellsboro,	174 E.
Harry Lewis Odenwelder,†	Easton,	Mr. Odenwelder's.
Willard Enoch Perry,	Scranton,	———
Charles Thomas Rainey,	Blairsville,	114 N. 3d St.
Theodore Lincoln Reeve,	Middletown, N. Y.,	31 S.
Edward Pim Remington,	Williamsport,	159 P.
Sierra Leone Richards,	Glendon,	Mr. Richard's.
Henry Martin Riegel,	Easton,	340 Bushkill St.
George Wolfe Ryon,	Pottsville,	155 P.
William Elmer Schoch,	Easton,	35 Cattell St.
John Green Semple,	Easton,	918 Northampton St.
Oliver Horatio Smith,	Easton,	122 S. 3d St.
Louis Reichard Spangenberg,	Easton,	210 Church St.
John Stewart, Jr.,	Easton,	123 N. 2d St.
Walter Crittenden Stier,†	Easton,	119 S. 3d St.
Arthur Tobias Stoutenburgh,	Schooley's Mountain, N. J.,	31 S.
William Stone Torrey,†	Honesdale,	143 McK.
Jacob Davidheiser Updegrove,	Monocacy,	101 N.
Robert Norman Wallace,	Stroudsburg,	159 P.
John Gilchrist Watson,	Flemington, N. J.,	21 S.
Theodore Ladd Welles,	Kingston,	110 M.
Frank Happersett Wells,	Pickering,	43 S.
Moses James White,†	Hartford, Conn.,	147 P.
Albert Barnes Williamson,	Sidney, N. J.,	12 S.
Harry Ross Wilson,	Clarion,	38 S.
William Henry Woodring,	Easton,	164 E.
Edmund Drake Woodruff,	East Orange, N. J.,	202 Cattell St.
Frank Woodside,	Easton,	202 Cattell St.
George Dare Woodside,	Philadelphia,	202 Cattell St.
James McKeen Young,	Easton,	241 Northampton St.
William John Gaul Yuengling,	Pottsville,	158 P.

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ABBREVIATIONS.

B.—Blair Hall. E.—East Hall. M.—Martien Hall.
McK.—McKeen Hall. N.—Newkirk Hall. P.—Powel Hall.
S.—South College. †—Special Course.

Courses of Study.

CLASSICAL DEPARTMENT.

The CLASSICAL DEPARTMENT corresponds to the Undergraduate Department for the Degrees of A. B. and A. M. in our best Colleges. It includes courses in the following subjects.

1. Biblical Instruction.
2. Mental and Moral Philosophy.
3. History. Political Philosophy.
4. Rhetoric and Elocution.
5. Human Physiology.
6. Languages.
7. Mathematics. Astronomy.
8. Natural Philosophy.
9. Chemistry.
10. Botany. Zoology.
11. Mineralogy. Geology.

The presence in the Faculty of eminent specialists in Science and Engineering warrants the Trustees in calling attention to the scientific and mathematical studies as unusually attractive and thorough. But no less stress is laid on other subjects. The amplest opportunities are till given for the study of Philosophy and of the Ancient and Modern Languages. It is the earnest endeavor of the Board to give the whole Department greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind and of imparting the useful and liberal learning which becomes a Christian scholar.

PARDEE SCIENTIFIC DEPARTMENT.

This department was organized by the Trustees of the College in 1866, to carry into effect the conditions of a donation from A. PARDEE, Esq., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to $200,000. In 1871 Mr. PARDEE made another and still larger donation for the erection of a building designed for the use of the Scientific Department.

This building, costing, with its Scientific Equipment, nearly three hundred thousand dollars, was completed in 1873, and upon the 21st of October of that year was formally handed over by the munificent donor to the Trustees.

It consisted of a centre building five stories in height, fifty-three feet front and eighty-six feet deep, and a lateral wing on each side of the centre building, measuring sixty-one feet in length and thirty-one feet in width, four stories in height, including a mansard roof, the whole terminating in two cross wings forty-two feet front and eighty-four feet deep, and four stories in height, the entire length of front, in a straight line, being two hundred and fifty-six feet. In determining what rooms were needed and the best arrangement of them, similar buildings in Europe, as well as in this country, were carefully studied, and liberal provision has been made in all the departments of instruction for every aid which has been devised for the most thorough and attractive teaching, and also for the prosecution of original researches.

The original building was burned on the evening of June 4th, 1879. It has been rebuilt on the same site, of the same dimensions and external appearance. The arrangement of the interior has been much improved as experience with the former building suggested. In addition to its strictly scientific provisions, it contains suites of rooms for the Literary Societies, and an Auditorium for the oratorical exercises of Commencement, and similar occasions.

The re-opening was celebrated with appropriate ceremonies by a great concourse, on the 30th of November, 1880. An assembly so distinguished has rarely gathered in honor of any educational foundation in this country. His Excellency, Rutherford B. Hayes, President of the United States, with Members of his Cabinet, the General of the army, and the Commissioner of Education, His Excellency, Henry M. Hoyt, Governor of the Commonwealth of Pennsylvania, the State Superintendent of Education, the Moderator of the General Assembly of the Presbyterian Church and the Moderator of the Synod of Philadelphia, with many other dignitaries of Church and State, took part in the addresses of thanks and congratulation to the Founder of the Hall and the friends of the College.*

The Board intend that the whole Scientific Department shall be impressed with the Christian character of the College. In addition to the systematic and thorough study of the Word of God in all the classes, special attention will be given to the harmony of Science with Revealed Religion.

The Scientific Department of the College leading to the Degree of B. S., is designed for those who wish to study the Natural Sciences,

* The re-opening address by Prof. March, with a report of other speeches delivered during the day, and a general account of the proceedings, may be had on application to any member of the Faculty.

Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of College life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that our present collegiate system has grown up under the fostering care of the church, and that the relations of our old collegiate studies to manly culture and religious training have been studied by generations of Christian educators. They have, therefore, taken care that the new course shall not be removed from the old landmarks, and that, as far as possible, the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other modern Classics, which has been for some years in use in the College, gives, in a good degree, the same kind of discipline that is derived from the study of Greek and Latin. Latin, however, may be taken in this Department if the student elect; the course then leading to the Degree of Ph. B.

TECHNICAL STUDIES.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the General Course of the Scientific Department, which is designed to lay a substantial basis of knowledge and scholarly culture, courses have been arranged for those who may wish to devote themselves to studies essentially practical and technical.

I. Engineering, Civil, Topographical and Mechanical.—This course is designed to give professional preparation for the location, construction and superintendence of Railways, Canals and other engineering works; the design, construction and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. Mining Engineering and Metallurgy.—This course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining and metallurgical works.

III. Chemistry.—This course includes text-book study, lectures and laboratory practice, every facility for which is found in the Laboratories. Provision is made for advanced and special students who may wish to make original researches, or to study any particular department of Chemistry.

POST-GRADUATE DEPARTMENT.

Resident Graduates, and others having suitable preparation, may pursue special studies in any branch, either of the Classical or the Scientific Department, under the direction and instruction of the Professor in that branch, and have the use of the Laboratories, Apparatus, Collections and Libraries, while prosecuting original researches. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

LAW DEPARTMENT.

The Law Department was organized by the Trustees of the College in 1874. Further information may be obtained by addressing the Dean of the Law Department, Hon. William S. Kirkpatrick.

Admission.

CLASSICAL DEPARTMENT.—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra to quadratics; Plane Geometry, two books; English, Latin and Greek Grammar, including Prosody; Cæsar's Commentaries (four books,) or Sallust; Virgil (the Bucolics, and six books of the Æneid;) Cicero, seven orations; Jones's Latin Prose (Allen and Greenough's Rules of Syntax;) Xenophon's Anabasis, four books; three Gospels in the Greek Testament, or three books of Homer—Odyssey preferred; Arnold's Greek Prose Composition (22 §§—or equivalent in Jones's;) or other authors fully equivalent in quantity to the above.

SCIENTIFIC DEPARTMENT.—Candidates for admission to the Freshman Class for the Scientific Course are examined in English Grammar; Modern Geography; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, two books; (for Civil Engineers, Plane Geometry, entire;) the elementary principles of Natural Philosophy, and the Outlines of History. Those who elect the study of Latin are examined also in the Latin required for admission to the Classical Course and in Ancient Geography.

It is expected that all candidates for admission to the College will be acquainted with the general contents of the Bible.

TECHNICAL AND SPECIAL STUDIES.—Applicants for instruction in Technical or special studies are examined on such subjects connected with the study as have been gone over by the class which they propose to enter. For the WORKING SECTION in Engineering see page 26.

ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student is admitted to the Senior Class after the beginning of the second term.

TESTIMONIALS.—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on scholarships must produce certificates for the same, and have their entrance indorsed thereon.

MATRICULATION.—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

Classical Department.

FRESHMAN YEAR.

First Term.

Livy.
Memorabilia.
Algebra (continued).
Latin Prose Composition.
Greek Prose Composition.
Lectures on Health.
Classical Geography.
English Composition.
Biblical Geography, Coleman's.
Old Testament in English.

Second Term.

Horace.
Herodotus.
Geometry (continued).
English Composition.
Latin Prose Composition.
Greek Antiquities.
Biblical Geography.
Old Testament in English.

Third Term.

Horace.
Athenagoras.
Algebra (completed).
Solid Geometry.
Roman Antiquities.
English Composition.
Greek Prose Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations, and written Translations into English from Greek and Latin.

SOPHOMORE YEAR.

First Term.

Homer, Iliad.
Cicero, De Oratore.
Study of Words, Trench.
Mensuration.
Trigonometry, Plane and Spherical.
Greek Testament—Acts.

Second Term.

Homer, Iliad.
Latin Hymns, March's.
Conic Sections, Coffin's.
Rhetoric.
Archæology of Greek Literature and Art.
Greek Testament—Acts.

Third Term.

Plato.
French.
Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying.
Archæology of Roman Literature and Art.
Greek Testament—Acts.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

First Term.

Cicero, De Officiis.
Demosthenes, De Corona.
Thucydides or Justin Martyr. } Elective.
Theoretical Mechanics. }
German.
Greek History.
Descriptive Mechanics.
Greek Testament—Romans.

Second Term.

Tacitus.
Physics (begun).
English, Milton.
Anglo-Saxon, March's Grammar and Reader.
Constitution of the United States.
Political Philosophy.
Hebrew Commonwealth.
Greek Testament—Romans.

Third Term.

Greek Tragedies.
Physics (completed).
English, Shakespeare.
Anglo-Saxon (continued).
Chemistry, with Laboratory Practice.
Greek Testament—Romans.

Throughout the Year.—Declamations, Themes and written Debates.

SENIOR YEAR.

First Term.

Mental Philosophy (begun).
Astronomy (begun).
Botany. Zoology.
Anatomy and Physiology.
Juvenal and Persius. } Elective.
Lactantius. }
Rhetoric. Logic.
Rule of Faith.

Second Term.

Mental Philosophy (completed).
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology. Mineralogy.
English Literature.
Blackstone.
Chemistry.
Astronomy (completed). } Elective.
Greek. French or German.
Hebrew, Green's Grammar.
Evidences of Christianity.

Third Term.

Greek Harmony of the Gospels.
Archæology of Literature. } Elective.
Philosophy of Mathematics. }
Comparative Philology.
Geology (completed).
Architecture.
Blackstone.
Chemistry.
Greek. French or German. } Elective.
Hebrew, Chrestomathy.
History.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

Pardee Scientific Department.

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

First Term.

Algebra (continued).
Elements of Industrial Drawing.
English, March's Method.
English Composition.
French or Latin.
Chemistry.
Lectures on Health.
Biblical Geography, Coleman's.
Old Testament in English.

Second Term.

Geometry (continued).
Drawing, Plane Problems.
English Composition.
Modern Languages or Latin.
Chemistry, with Laboratory Practice.
Biblical Geography.
Old Testament in English.

Third Term.

Algebra (completed).
Solid Geometry.
Mineralogy.
Elementary Projections
Modern Languages or Latin.
Analytical Chemistry.
English Composition.
Biblical Geography.
New Testament in English.

Throughout the Year.—Declamations and written Translations into English from French and German or Latin.

SOPHOMORE YEAR.

First Term.

Mensuration.
Trigonometry, Plane and Spherical.
Elementary Projections.
Modern Languages or Latin.
English, Bunyan.
Study of Words, Trench.
Analytical Chemistry (optional).
Acts of the Apostles in French.

Second Term.

Conic Sections, Coffin's.
Topographical Drawing (optional).
Botany. Zoology.
Modern Languages or Latin.
Rhetoric.
English, Spenser.
Analytical Chemistry (optional).
Acts of the Apostles in French.

Third Term.

Analytical Geometry.
Differential and Integral Calculus.
Navigation and Surveying.
Botany. Zoology.
English, Chaucer,
Analytical Chemistry (optional).
Acts of the Apostles in French.

Throughout the Year.—Declamations and Themes.

JUNIOR YEAR.

First Term.

Mechanics.
French or Latin.
English, Bacon. } Elective.
Chemistry. }

Zoology.
Botany.
New Testament Epistles in German.

Second Term.

Physics (begun).
German or Latin.
English, Milton.
Anglo-Saxon, March's Grammar and Reader.

Constitution of the United States.
Political Philosophy.
Hebrew Commonwealth.
New Testament Epistles in German.

Third Term.

Physics (completed).
English, Shakespeare.
Anglo-Saxon (continued).

French or German.
New Testament Epistles in German.

Throughout the Year.—Declamations, Themes and written Debates.

SENIOR YEAR.

First Term.

Mental Philosophy (begun).
Astronomy (begun).
Rhetoric. Logic.
German or Latin.

Modern Literature.
Anatomy and Physiology.
Rule of Faith.

Second Term.

Mental Philosophy (completed).
Political Economy.
Rhetoric. Logic.
Moral Philosophy.
Geology.
Mineralogy.

Modern Languages.
Astronomy (completed).
Chemistry.
Blackstone. } Elective.
English Literature.
Evidences of Christianity.

Third Term.

Philosophy of Mathematics. } Elective.
Archæology of Literature. }
Comparative Philology.
History.
Architecture.

Chemistry.
Blackstone. } Elective.
Modern Languages. }
Geology.
Butler's Analogy.

Throughout the Year.—Themes and Extemporaneous Speaking.

Students in the Scientific Course, who wish to make a special study of Chemistry, have the privilege of devoting the greater part of the last two years to work in the Laboratories, electing such departments of Chemistry as they may particularly wish to pursue. See page 33.

CIVIL ENGINEERING COURSE.

FRESHMAN YEAR.

First Term.

Algebra (completed).
Elements of Industrial Drawing.
English, March's Method.
French.
Chemistry.
Lectures on Health.

Second Term.

Geometry (completed).
Surveying.
Plane Problems.
Problems in Division of Land.
French.
German.
Chemistry, with Laboratory Practice.

Third Term.

Trigonometry and Mensuration.
Surveying, Field Work.
Elementary Projections.
French.
German.
Analytical Chemistry.

Throughout the Year.—Declamations, Themes and the Bible.

SOPHOMORE YEAR.

First Term.

Analytical Geometry (begun).
Surveying, Field Work.
Elementary Projections.
Mineralogy.
French.
German.
Study of Words, Trench.

Second Term.

Analytical Geometry (completed).
Topographical Drawing.
Analytical Chemistry (optional).
Botany. Zoology.
French.
German.
Mineralogy.

Third Term.

Differential and Integral Calculus.
Descriptive Geometry.
Botany. Zoology.
French.
German.
Determinative Mineralogy.

Throughout the Year.—Declamations, Themes and the Bible.

JUNIOR YEAR.

First Term.

Descriptive Geometry (General Orthographic Projections).
Triangular Surveying; Field Work, Adjustment of Instruments.
French.
Mechanics.
Lithology.
Practice with the Blow-pipe.

Second Term.

Physics (begun).
Calculus (continued).
Shades and Shadows.
Road Engineering—Theory (begun).
Colored Topography.
Hydrographical Surveying.

Third Term.

Physics (completed).
Analytical and Applied Mechanics.
Linear Perspective.
Topographical Surveying.
Map of Topographical Survey.
Road Engineering—Theory (completed).

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

First Term.

Water Supply.
Road Engineering—Practice.
Plans, Profiles and Sections of Road Surveys.
Astronomy.
General Theory of Machines.
Machine Drawing.
Anatomy and Physiology.

Second Term.

Machinery and Motors.
Stone Cutting.
Strength of Materials.
Stability of Structures.
Supply and Distribution of Water.
Astronomy.
Political Economy.
Geology.
Mineralogy.

Third Term.

Foundations. Retaining Walls.
River and Canal Improvements.
Designs for, and Reviews of Engineering Works.
Bridge Drawing.
Bridge and Roof Construction.
Graphical Statics.
History.
Geology.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

MINING ENGINEERING.

The FRESHMAN and SOPHOMORE years are essentially the same in this as in the CIVIL ENGINEERING COURSE.

JUNIOR YEAR.

First Term.

Mechanics.
Mine Surveying, Adjustment of Instruments.
Analytical Chemistry.
French.
Lithology.
Practice with the Blow-pipe.

Second Term.

Physics.
Colored Topography.
Practice in Lithology.
Analytical Chemistry.
German.
Assaying.
Maps of Surveys.

Third Term.

Topographical Surveying.
Map of Topographical Survey.
Analytical Chemistry.
French or German.
Analytical and Applied Mechanics.

Throughout the Year.—Declamations, Themes, written Debates and the Bible.

SENIOR YEAR.

First Term.

Mining.
Ore Deposits.
Analytical Chemistry.
Machine Drawing.
General Theory of Machines.

Second Term.

Mining.
Analytical Chemistry.
Machinery and Motors.
Geology. Mineralogy.
Political Economy.
Supply and Distribution of Water.

Third Term.

Mining.
Metallurgy.
Designs for, and Reviews of Special Metallurgical and Mining Operations.
History.
Geology.
Analytical Chemistry.
Graduation Theses.

Throughout the Year.—Themes, Speaking and Biblical Studies.

Working Section.—Graduates of Schools of Science and Practical Engineers wishing to devote all their time to thorough preparation for professional employment in Civil Engineering, may enter, without examination, the Senior Class, which is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus. Others wishing to enter the Section must pass an examination on the studies leading to the work of the Section. Those completing the work of the Section may obtain from the Faculty a certificate to that effect.

Further information may be had by addressing the Dean of the Pardee Scientific Department.

Special Remarks on the Courses of Study.

BIBLICAL INSTRUCTION.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. In these the Assembly's Catechism is studied. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year are studied the Old Testament in the original Hebrew (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy and the Rule of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole College course.

MENTAL AND MORAL PHILOSOPHY.

Haven's Mental Philosophy and Hopkin's Outline Study of Man are used as text-books during the first and the second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

HISTORY, POLITICAL PHILOSOPHY.

FRESHMAN YEAR.	*First Term.*	History of Rome.
	Second Term.	History of Rome.
JUNIOR YEAR.	*First Term.*	History of Greece.
	Second Term.	Constitution and Constitutional History of the United States.
		The Hebrew Commonwealth; Political Philosophy.
SENIOR YEAR.	*First Term.*	History of Modern Literature.
	Second Term.	Political Economy. Common Law.
	Third Term.	History. (Lectures.) Common Law.

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the history of the formation of the Constitution, of the conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

Recitations on the Common Law are prepared from American editions of Blackstone twice a week during the second and third terms of the Senior year.

Political Economy is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a course of Lectures in the Senior year.

RHETORIC AND ELOCUTION.

Besides the study of text-books, weekly written essays are required, and declamations in class or before the College. EXTEMPORANEOUS SPEAKING is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors deliver unwritten addresses on subjects of their own choice, instead of selected declamations. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

Systematic instruction and training in Elocution is given through the whole College course. The Seniors speak original and the other classes selected pieces.

In addition to the regular class speaking of each week, there is held, on the first Wednesday of each month, an exercise at which speakers from the three upper classes appear before an audience consisting of the entire body of students and faculty and invited guests. In making the appointments, which are purely honorary, for this exercise, regard is had both to natural ability and to faithful work in the regular class speaking.

LANGUAGES.

Latin and Greek.—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practiced. The reading of classic authors is accompanied with daily lessons in grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	*First Term.*	General Rules for Syntax. Pronunciation.
	Second Term.	Etymology of the Verb.
	Third Term.	Etymology (continued). Prosody (Latin).
SOPHOMORE YEAR.	*First Term.*	Syntax (begun). Prosody (Greek).
	Second Term.	Historical Etymology.
	Third Term.	Syntax (modes and tenses).

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric and Mental Philosophy, which the class are pursuing at the time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Thucydides, Demosthenes, Cicero and Plato, in these relations.

The text-books of the Douglass series of Christian Greek and Latin writers are used in a part of the course, as follows: Freshman year, third term, Athenagoras; Sophomore year, second term, Latin Hymns; Junior year, first term, Justin Martyr (elective); Senior year, first term, Lactantius (elective).

In this department the following books are used: Harpers' New Latin Lexicon, Allen and Greenough's Latin Grammar for drill, Madvig's and Roby's for reference, Goodwin's Greek Grammar for drill, Crosby's and Hadley's for reference, Goodwin's Greek Modes and Tenses, Liddell and Scott's Lexicon, Eschenburg's Manual and Ginn and Heath's Classical Atlas.

English, French, German, etc.—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English Classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed: the mythology, biography, history, metaphysics, theology, geography are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art, are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times, are studied, and the attempt is made to comprehend these great representative works in their relations to the English Literature, and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from our language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute, in the Scientific Course, for that derived from the study of Greek and Latin, as it is pursued in the Classical Course.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary, are used in this department.

ANGLO-SAXON, GERMAN and FRENCH are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other and language in general.

ANGLO-SAXON, ENGLISH, GERMAN and FRENCH are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

THE FOWLER PRIZE.—An annual prize of thirty dollars was founded in 1862, by Rev. Wm. C. Fowler, LL.D., of Connecticut, under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The Class of 1880 were examined on Poe. The prize was awarded to I. P. McCurdy. The Class of 1881 will be examined on Cowper.

THE HARVEY PRIZE.—An English Prize of twenty dollars, for the Junior Class, was founded in 1872, by Oscar J. Harvey, A. M., of the Class of 1871.

In the Class of 1881 it was awarded to E. L. Scott.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE for 1880, offered by the London Society of that name, for the best examination in English before Chaucer, was won by E. L. Scott, for the best examination in the Anglo-Saxon Laws.

THE NEW SHAKESPEARE SOCIETY'S PRIZE for 1880, offered by the London Society of that name, for the best examination in Shakespeare, was won by W. O. Semple of 1881.

MATHEMATICS AND ASTRONOMY.

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	*First Term.*	Algebra (continued).
	Second Term.	Geometry (continued).
	Third Term.	Algebra and Geometry (completed).
SOPHOMORE YEAR.	*First Term.*	Trigonometry and Mensuration.
	Second Term.	Conic Sections.
	Third Term.	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	*First Term.*	Mechanics.
	Second Term.	Physics (begun).
	Third Term.	Physics (completed).
SENIOR YEAR.	*First Term.*	Astronomy (begun).
	Second Term.	Astronomy (completed).

See Physics, p. 32

Students in the Technical Courses study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Scientific Course, see pages 22 and 23.

Text-books are used as mentioned on pages 20 and 21, but it is made the main effort to teach the *Subjects.* In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practiced in the handling of instruments, the taking of observations, and in field-work of every kind. In Astronomy they are taught the working of the Observatory.

PRIZES.—A prize of thirty dollars is awarded for proficiency in the Astronomical studies of the Senior year. In 1880 it was awarded to J. T. Morrison.

For proficiency in Mathematical studies, a prize of twenty dollars is given in each of the departments, Classical or Scientific, and Technical, to a member of the Junior Class. In 1880 this prize was awarded to F. A. March, Jr., in the Classical Department. In the Technical Department it was not awarded.

PHYSICS.

The studies of this department in the Classical and the General Scientific Course occupy four recitations or lectures a week during the first and the second term of the Junior year, and five during the third term.

In Mechanics two courses are given; one a general course in a college text-book, accompanied with lectures and experiments, the other a thorough mathematical discussion of the subjects. The latter course is elective with Greek for students of the Classical Course.

In other subjects text-book study is accompanied with illustrative lectures, aided by apparatus which will bear comparison with that of any other of our colleges, and which is continually enlarged and improved.

For the advanced studies of the Technical Courses in Analytical Mechanics and other topics of Mechanical Engineering, see pages 25–26.

In Physics, as well as in Astronomy, Chemistry, Engineering and Natural History, the studies are illustrated by wall-charts, thirteen hundred in all, many of which give illustrations not otherwise easily accessible to students.

CHEMISTRY.

The study in this department begins with a course of lectures on General Chemistry combined with the study of a text-book. In connection with these lectures each student is required to work in the laboratory, under the direction of the Professor; and they may pursue Analytical Chemistry through the rest of the course. The Chemical students of the General Scientific Course spend during their last two years the greater part of their time in the laboratory, electing such chemical and related studies or investigations as they may wish to pursue. The instruction is then mainly individual, and a student's progress depends on his ability and industry.

Partial or special students may enter the laboratories at any time, provided they have the necessary knowledge of general chemistry to work advantageously. Advanced students will be afforded opportunity for continuing their studies, or for conducting investigations in organic or inorganic chemistry.

BOTANY, ZOOLOGY, GEOLOGY.

FRESHMAN YEAR.	*Third Term.*	Mineralogy.
SOPHOMORE YEAR.	*Second and Third Terms.*	Botany. Zoology.
JUNIOR YEAR.	*First Term.*	Zoology.
SENIOR YEAR.	*First Term.*	Botany. Zoology.
	Second and Third Terms.	Mineralogy. Geology.

The exercises of the Freshman, Sophomore and Junior years belong to the Scientific Course; those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science—field excursions for observations and collection, preparation and care of specimens, drawing, the use of microscope, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium the extensive collection of Prof. Porter, the fruit of thirty years' labor on his part, embracing the complete Flora of Pennsylvania. In GEOLOGY, besides the text-book study, Professor Porter delivers a course of lectures on the connections between Natural Science and Revealed Religion.

In MINERALOGY the classes have the advantage of the admirable cabinets prepared for the Technical Course of Metallurgy and Mineralogy. For the advanced studies of this Course, see pages 25–26.

HUMAN PHYSIOLOGY.

FRESHMAN YEAR.	*First Term.*	Lectures on Health.
JUNIOR YEAR.	*First Term.*	General Principles of Physiology.
SENIOR YEAR.	*First Term.*	Lectures on Anatomy and Physiology.

The lectures in this department are thorough and practical, illustrated by a manikin, and by diagrams and anatomical plates and preparations. Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

Religious Exercises.

All the students attend prayers in the College Chapel daily, and preaching on the Sabbath. A daily social prayer meeting has long been maintained by the students; it is under the auspices of the Christian Brotherhood of the College, an organization composed of professing Christians, having for its object mutual helpfulness in right living and usefulness. Thursday evening there is divine service in Brainerd Hall, conducted by the President, or one of the Professors, to which all the students are invited.

Degrees.

The First Degree.—The degree of BACHELOR OF ARTS is conferred on the graduates of the Classical Department; the degree of BACHELOR OF SCIENCE on graduates of the Scientific Department, or if Latin be taken in this course, the degree of BACHELOR OF PHILOSOPHY. Graduates of the Engineering Course receive the degree of CIVIL ENGINEER. Graduates who have taken the special studies in Mining Engineering, Metallurgy and Chemistry may receive certificates of the same, or have the fact stated upon their Diplomas.

Master's Degree.—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two

years post-graduate studies at the College in any of the scientific departments, or who has elsewhere for three or more years engaged in scientific pursuits, and during that time sustained a good moral character. Those desiring the MASTER's degree should make written application to the Clerk of the Faculty six weeks before Commencement.

Doctor's Degree.—Graduates of the College of three years' standing, and resident students of post-graduate courses for the same time, may by vote of the Faculty be admitted as candidates for the degree of DOCTOR OF PHILOSOPHY by Special Examination and Thesis.

Certificates.—Students who have been admitted to any Department of the College, and have passed satisfactory examinations therein, may obtain certificates of the same, if they have been in attendance not less than one year.

Libraries and Reading-room.

The College Library is open Thursday, Friday and Saturday at nine o'clock, A. M.; the libraries of the Literary Societies, on Wednesday afternoon; of the Brainerd Society and of the Scientific Societies at the regular meetings.

The EASTONIAN HALL is fitted up as a Reading-room, and is supplied with the best newspapers and periodicals of America, England, France and Germany. Dictionaries, cyclopædias and other works of reference belonging to the Library are also placed in this room. It is kept open to all members of College daily (Sundays excepted), for consultation during study hours, morning, afternoon and evening, and for general reading out of study hours. It occupies the first floor of the east wing of South College and the second story in galleries, making a spacious, light and airy hall. It is adorned with literary treasures and portraits of honored benefactors and officers of the College. Among these collections is a Papyrus Scroll five feet long, from a mummy at Thebes, with a hieratic inscription pronounced by Seyffarth the finest he has seen, presented by Hon. John W. Garrett, of Baltimore. There is also a full length portrait of Lafayette, painted by Healey at the Chateau La Grange, from Ary Sheffer's famous painting, and presented by Dr. Thomas W. Evans, of Paris.

The Alumni Association.

The Alumni Association is composed of Graduates of the College and such of their classmates (who left College before graduation, and in good standing) as may have been elected. The annual meeting is held on Tuesday preceding Commencement-day.

COMMITTEE OF THE ALUMNI TO ATTEND THE EXAMINATIONS.

Hon. H. G. Fisher, *President of the Alumni Association.* Rev. James I. Good, *Vice-President.*

Rev. J. F. Kennedy, D. D.,	'39	Hon. J. W. Griggs,	'68
Hon. Charles Brodhead,	'44	Rev. George E. Jones,	'69
Rev. G. C. Heckman, D. D.,	'45	Rev. D. J. Waller, Ph. D.,	'70
Rev. E. D. Junkin, D. D.,	'47	Wm. McMurtrie, Ph. D.,	'71
Wm. W. Nassau, M. D.,	'50	Arthur M. McComb, Esq.,	'75
Prof. Jas. M. Rawlins,	'55	James Monagan, Esq.	'76
Wm. G. Meigs, Esq.,	'62	Rev. Frank H. Moore,	'77

College Societies.

There are two literary societies in the College, the Washington and the Franklin, which have well furnished Halls, wherein their weekly meetings are held on Wednesday evenings. Each Society has a valuable library. On the day preceding Commencement the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The Brainerd Evangelical Society, as a Society of Inquiry, meets on the first Wednesday of each month, in the interests of missions and for the promotion of Christian effort. Its public anniversary address is pronounced on Sabbath preceding Commencement.

The Natural History Society, Professor Porter, President, meets in the Botanical room, and by its committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The Chemical Society, Professor Drown, President, has for its object the preparation and discussion of papers on chemical or allied subjects. Laboratory students have the opportunity of working on original investigations and communicating the results to the Society.

The Society of Physics and Engineering, Professor Moore, President, has for its object the investigation and discussion of subjects connected with these departments.

Terms and Vacations.

The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2. All the Classes are examined at the close of each term, and a report sent to the parent or guardian. Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

Expenses.

Tuition (to those not on scholarships) in the Classical or General Scientific Department,	$15 00	a term
Tuition in Technical Studies or Chemical Sections,	25 00	"
General Expenses,	8 00	"
Library and Reading-room,	2 00	"

The annual College charges are therefore, for those who pay tuition in full, $75 for the Classical or General Scientific Course; and $105 for Technical Studies. Each student pays $5 when he is registered on entering college, and $10 when he is matriculated thirty days afterwards. These fees are appropriated to the Library fund, and to the increase of the scientific collections and apparatus. No fees are charged for diplomas.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge canceled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost. A deposit sufficient to meet these expenses is made on entering the laboratories. Members of the Classical Department are admitted to all the privileges of the laboratories while studying General Chemistry, and for the present, without charge for the aid of the Professor in attendance;

each student will, however, pay for chemicals which he uses, and for any apparatus which he may break or injure.

For the present the scholarships securing free tuition in the Classical Course will hold good for the Pardee Scientific Department, unless the student shall select Technical Studies, in which case he must pay each term one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Applications for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of board in clubs managed by the students is from $1.85 to $4 per week.* Board, including furnished room in private families is from $5 to $7 per week. Unfurnished rooms in the College building may be had at a cost of from five to fourteen dollars a term (average $8). Unfurnished rooms adjacent to the College premises can be rented for from twelve to sixteen dollars a term. Students obtain washing at 60 cents per dozen pieces.

The College charges must be paid each term in advance, also the room rent, when the student occupies a room in the College buildings. The Treasurer also, on behalf of the Committee of Students, collects with the College bills at the beginning of the first term $5, and of the second term $7, for fuel. The unexpended balance is refunded by the Committee at the close of the year. For the last few years the average cost for fuel to those in double rooms was $6.75, to those in single rooms $10.07. A deposit of one dollar is also made, at the beginning of each term, to pay for public damages, the unexpended balance of which is returned to the student at the end of the year. Some money for books and other incidental expenses will be needed; but, with economy, the total annual expenses—exclusive of tuition, clothing and traveling expenses—need not exceed $250, as will be seen from the following summary:

COLLEGE CHARGES.		
General Expense, ...	$24 00	
Library and Reading-room, ...	6 00	——$30 00
INCIDENTAL EXPENSES.		
Fees and dues, Literary and Scientific Societies (estimated),	$ 8 00	
Text-books and Stationery (estimated), . . .	20 00	——$28 00

*There are at the present time ten of these Clubs. The price of board per week in each is as follows: (1) and (2) $1.85; (3) and (4) $2; (5) $2.25; (6) $2.50; (7) and (8) $3; (9) and (10) $4. About eighty of the students board in Clubs, in which the price of board per week is two dollars or less.

PERSONAL EXPENSES.

Board for 39 weeks (at lowest club rates, see note, p. 37),	$72 15	
Room Rent (average as above),	24 00	
Fuel (average as above),	6 75	
Light and Washing (estimated),	24 00	$126 90
		$184 90
Leaving a balance for contingencies,		65 10
Total as above,		$250 00

Board at the highest club rates, $4 per week, would add $87.75 to the above estimate, and bring the annual expenses a little above the two hundred and fifty dollars.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure, for which services he will charge a commission. It is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Recent Additions.

The Department of Chemistry has received during the past year a collection of fertilizers from Messrs. Baugh & Sons, Philadelphia; a collection of gun powders from Mr. W. H. Emanuel, of '81; mineral specimens from Mr. W. H. Scranton, Oxford, N. J.

The Library has received gifts from Gen. Wm. S. Stryker, N. J.; Hon. J. Donald Cameron; Hon. S. A. Bridges; Hon. Thomas McCamant, A. M., of '61; Hon. Matthew S. Quay; Rev. J. C. Clyde, A. M., of '66; Dr. C. L. Stevens, A. M., of '76; G. W. Snow, of '80; Mrs. R. H. Cooper; Mrs. Annie M. Ferrier; Mrs. W. Ricker; Rev. J. C. Hepburn, D. D., of Yokohama; Rev. Sheldon Jackson; Hon. N. H. Winchell, of Minnesota; Com. J. Rogers; G. E. Eyre and Wm. Spottiswoode; Prof. J. E. Nourse, of the U. S. Naval Observatory; The Geological Survey of Wisconsin; The Second Geological Survey of Pennsylvania; The Smithsonian Institute; The U. S. Commissions and the Heads of Departments at Washington.

An important addition has been made to the Mineralogical Cabinet through the liberality of Dr. Joseph Mixsell, of Easton, who has pre-

sented to the College the large and valuable collection known as the "Wagener Collection."

This collection is the result of the labors of the late JACOB WAGENER, one of the founders of the College, and is particularly rich in specimens of local interest, like the collection of Dr. Joseph K. Swift, which was purchased by the College in 1872. Mr. Wagener and Dr. Swift were warm, personal friends, and for many years were interested in the same scientific investigations. It is believed that their combined collections completely illustrate the local mineralogy, while many of the specimens in Mr. Wagener's collection are of remarkable beauty and interest, and were obtained by him at a great expense. Another noticeable and valuable feature of his collection is the large number of minerals from Russia.

This collection, upon the death of Mr. Wagener in 1859, became the property of his widow, who presented it to the donor, Dr. Joseph Mixsell.

Specimens of Geodes from the Iowa Survey have been received from Dr. C. Lee Stevens, of '76.

There have also been added by purchase to the College Collection a large number of selected specimens and varieties of minerals not heretofore in the Cabinet, many of them being of recent discovery.

Bequests and Devises.

Each State has special statutory regulations in regard to wills, and it is most important that all testamentary papers be signed, witnessed, and executed in all other respects, according to the laws of the State in which the testator resides. In all cases, however, the name of the corporation must be accurately given, as in the following forms:

I give and bequeath to the "Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, the sum of ——— dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the support of the Professors in said college.

I give and bequeath a certain lot, situated, etc., to the "Trustees of Lafayette College" in Easton, Pennsylvania, and to their successors and assigns forever, for the uses and purposes of said college according to the provisions of its charter.

Appointments for Commencement Day,

JUNE 30, 1880.

HONORARY ORATIONS EQUAL IN RANK.

James McKeen Cattell,	The Philosophical Oration.
John Wilson Farquhar,	The Latin Salutatory.
John Trowbridge Morrison,	The Astronomical Oration.
William Vernon Olyphant,*	The Mathematical Oration.
Mathew Cooper Woods,	The Classical Oration.
William Wilberforce Smith,	The Valedictory.

ORATIONS.

James Woodbridge Barnes,
William Samuel Cason,
Herbert Allison Doud,
Clarence Lincoln Drake,
Muscoe Minor Gibson,
Aaron Goldsmith,
George Blackburn Goodhart,
Frederick Green,
Andrew Thomas Hays,
John Grandin Reading,
Robert Green Smith,
David Douglass Wagener,
William Guy Wells,
William Nelson Wilbur.

APPOINTMENTS FOR JUNIOR ORATOR CONTEST.

FRANKLIN HALL.	WASHINGTON HALL.
Henry Gough Birchby,	William Smith Barnes,
William Parker Chalfant,	John Rumsey Davies,
Thomas Culbertson Clark,	John Henry Grossmann,
Charles Bunstein Stover.	Samuel Gulick Hutchison.

* Died June 12th.

DEGREES

CONFERRED AT THE LAST ANNUAL COMMENCEMENT, June 30, 1880.

A. B.

Morton Shelly Bailey,
James Woodbridge Barnes,
William Samuel Cason,
James McKeen Cattell,
John H. Cooper,
Hervey Simpson Dickey,
Herbert Allison Doud,
Clarence Lincoln Drake,
Elmer Clay Fahrney,
John Wilson Farquhar,
Levi James Fick,
Lewis Wesley Flinn,
Muscoe Minor Gibson,
Aaron Goldsmith,
George Blackburn Goodhart,
Frederick Green,
Herbert Miller Hagerman,
Andrew Thomas Hays,
John Patrick Henry,
Frank Wallace Hohl,
Irwin Pounds McCurdy,
Norton John Martin,
Otho Nesbitt Miller,
John Grandin Reading,
Samuel Stewart Reid,
Robert Walter Sharp,
Robert Green Smith,
William Wilberforce Smith,
Joseph Fetherman Stier,
Montrose Graham Tull,
David Douglass Wagener,
William Guy Wells,
Mathew Cooper Woods,
George Lawrence Xander,
William Stewart Young,
Edward Wack Long, '77.

Ph. B.

William Findlay Brown,
Edmund Swalm Boyer, '79.

B. S.

Henry Hill Eldridge,
Harry Rogers Forbes,
John Smith Hart,
Edwin Kline,
William Nelson Wilbur.

C. E.

Alexander McClure Lupfer,
John Trowbridge Morrison,
William Vernon Olyphant,
Ambrose Davies Reese.

M. E.

John Potts Fillebrown,
John Markle,
William Ivins Whilldin,

A. C.

Frank Eshelman Bachman,
Austin Farrell.

A. M.

W. J. Alexander,	'77.	E. J. Knox,	'77.	G. M. Wells,	'77.
E. C. Beers,	"	J. McF. Leech,	"	M. J. Youngblood,	"
J. W. Bright,	"	E. R. Lichtenwallner,	"	M. Abernethy,	'52.
J. R. Dickson,	"	O. H. McAnulty,	"	D. J. Waller, Jr.,	'70.
E. J. Farber,	"	F. H. Moore,	"	W. C. Anderson,	'73.
H. M. Fisher,	"	McC. Radcliff,	"	J. C. Bergstresser,	'73.
J. W. Gilland,	"	G. W. Terbush,	"	G. B. Anderson,	'74.
W. P. S. Henry,	"	J. N. Ramsey, Jr.,	"	J. E. Ross,	'75.
R. P. Kennedy,	"	J. P. Uhler,	"	J. J. Serfass,	'76.

M. S.

C. H. Edgar, R. B. Harrison, G. H. R. Plumb,
W. B. Riegner, L. R. Walters.

A. M.—Honorary.

Dr. Charles T. Hunter, Demonstrator of Surgery and Lecturer on Operative and Minor Surgery, University of Pennsylvania.

D. D.—Honorary.

Rev. Charles J. Jones, of '40. Rev. Henry C. McCook, Philadelphia.

Ph. D.—Honorary.

Rev. Theodore W. Hunt, Adj. Professor of Rhetoric and the English Language, College of New Jersey.

Rev. D. J. Waller, Jr., of '70, Principal of State Normal School Bloomsburg, Pa.

LL. D.—Honorary.

Thomas S. Kirkbride, M. D., Philadelphia.

Hon. Abraham V. Van Fleet, Vice Chancellor of New Jersey.

Hon. John Trunkey, of the Supreme Court of Pennsylvania.

DEGREES CONFERRED AT THE MEETING OF THE BOARD, January, 1880.

A. M.

Edwin Atlee Barber, of '73. Samuel J. Gruver, M. D., '70.

Ph. D.

William Henry Schuyler, of '73.

A. M.—Honorary.

Joseph Mixsell, M. D., Easton, Pa. J. T. McCollom, Troy, Pa.

LL. D.—Honorary.

Prof. Alonzo Linn, Vice-Pres. of Washington and Jefferson College.

Hon. Henry Green, of '46, of the Supreme Court of Pennsylvania.

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